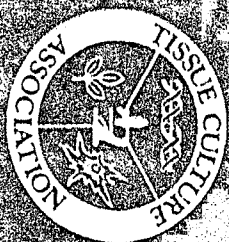


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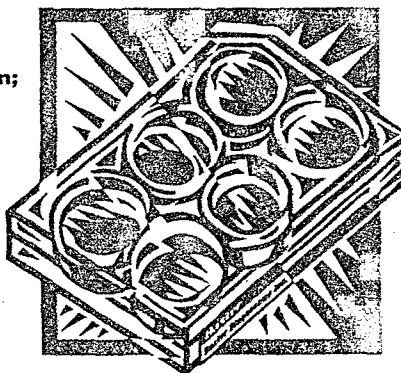
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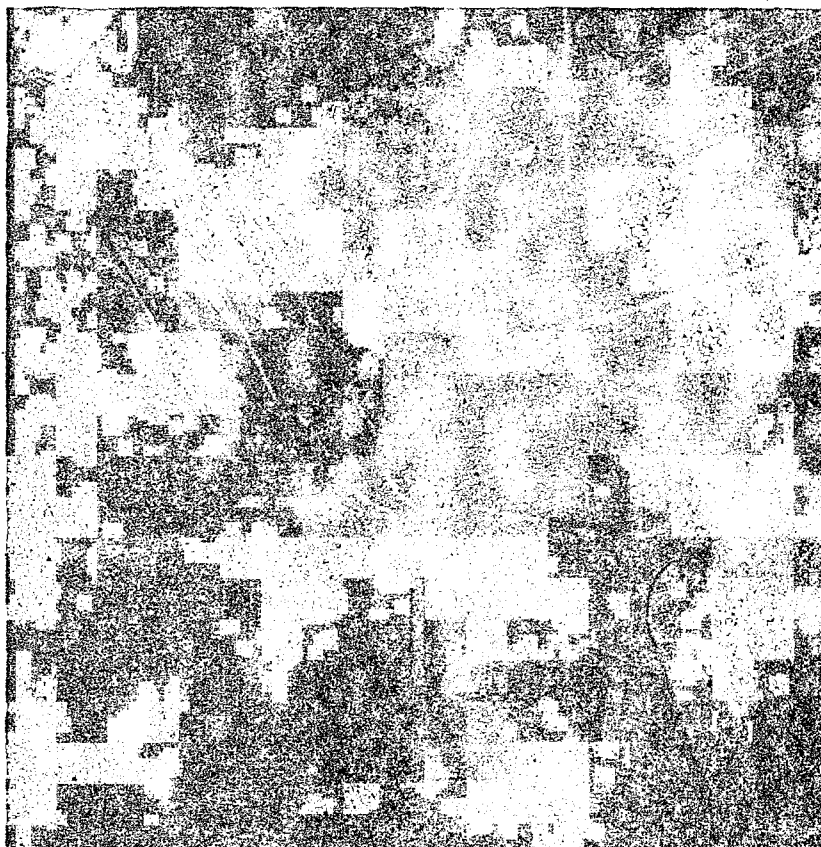
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## CONTENTS

Advertiser Index .....	3
Alphabetical Index .....	9
An Invitation to Join .....	49
Business Office Staff .....	4
Copying Notice Restrictions .....	7
Corrections and Additions .....	8
Council .....	4
Committees .....	5
Division Index .....	61
Future Meeting .....	66
Geographical Index .....	53
Honorary Members .....	7
Information for Authors (All TCA Publications) .....	69
Key to Symbols .....	7
Membership Application .....	52
Product Reference Guide .....	73
Sustaining Members .....	67
TCA Publications and Services .....	49

## ADVERTISER INDEX

Bartels Division, Baxter Diagnostics, Inc. ....	Cover 2
Cansera International Inc. ....	Cover 2
Kluwer Academic Publishers .....	1
Kontes Glass Company .....	76
Search Masters International .....	Cover 3
Sigma Cell Culture .....	Cover 4
The Technology Partnership .....	2
University Microfilms International .....	48
Wako Bio-Products .....	74
Worthington Biochemical Corporation .....	75

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### For information, contact:

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# An Invitation From the President

Dear Colleague:

For nearly fifty years, the Tissue Culture Association (TCA) has served investigators interested in the biology of cells and tissues. Our Association is a unique amalgamation of researchers interested in plant, animal, and invertebrate cell culture. We continue to identify new areas of overlap and interaction, including molecular biology, gene expression, media development and gene transfer. Biotechnology has similar opportunities for the development of a variety of culture systems for the acquisition of specific gene products.

We are enthusiastic about the diversity of our membership—drawn from industry, academia and government. Our Association provides a wonderful opportunity for networking. Its collegiality, as well as its interdisciplinary nature, fosters communication and collaboration. The breadth of our members' expertise allows the development of contacts in other arenas. Students are encouraged to participate by having reduced membership and meeting rates. The TCA also has an active program of student travel support and awards to enable young scientists to attend our annual Congresses.

Our organization provides three vehicles for publication which are well known in the scientific community. *In Vitro Cellular & Developmental Biology*—ANIMAL and —PLANT, as well as the *Journal of Tissue Culture Methods*, will enjoy an even greater distribution as the Association moves into the world market in response to increased interactions with the European and Japanese Tissue Culture Associations. These international ties have been strengthened with our recent World Congresses held in 1991 and 1992. With professional marketing assistance, we look forward to a broad international audience for our publications.

Our scientific meetings attract both members and nonmembers. They feature numerous commercial exhibits that allow investigators to communicate directly with manufacturers about specific product items. The size of the meeting is just right for communication and interaction with one's colleagues. The 1994 Congress on Cell and Tissue Culture will be held in Research Triangle Park, NC, June 4th. The theme of this meeting is "Regulation of Cell and Tissue Differentiation" and the program promises to be a stimulating one.

The Tissue Culture Association is proud of its heritage and excited by future plans. The members and officers of the TCA welcome your participation and encourage you to join the Association. The size and structure of the organization fosters member participation at many levels. In these times, science and scientists need visibility. Our organization hopes to draw public attention to the importance of maintaining a solid foundation of basic and applied research. Please join us in this effort.

Gretchen J. Darlington, Ph.D.  
President



— 1993/1994 —



## TISSUE CULTURE ASSOCIATION PUBLICATIONS AND SERVICES

### *In Vitro Cellular & Developmental Biology*

*In Vitro Cellular & Developmental Biology (IVCDB)* is the primary publication of the Tissue Culture Association, published 17 times per year in two sections, Animal and Plant. It includes original papers dealing with in vitro cultivation and characterization of cells, mechanisms of action, and observations on normal and pathologic states of plant and animal cells. The Abstract supplement issue contains the scientific program and abstracts of papers to be presented at the June Meeting. *IVCDB* is sent to members as part of their membership dues.

A sample copy and editorial guidelines for *IVCDB* may be obtained from the TCA Business Office. The Editors would welcome your comments and manuscripts. Authors need not be members of the Association to submit manuscripts, but members are eligible for reduced page charges.

#### ANIMAL

Published on a monthly basis, the ANIMAL section of *IVCDB* provides a timely publication outlet for invertebrate and vertebrate research. You are invited to submit your manuscripts directly to the Editor, Wallace L. McKeehan. Letter to the Editor manuscripts are encouraged, as well as Rapid Communications. This is an opportunity to present critically reviewed papers to the membership and subscribers of the Association which, along with our Annual Meeting, provides the communication requirements that have been long sought. All regular members of the Invertebrate and Vertebrate Divisions will receive this publication as part of their dues.

#### PLANT

The Plant Cellular and Developmental Biology Division has created a separate quarterly section of *IVCDB* to provide a timely publication outlet for plant research. You are invited to submit your manuscripts directly to the Plant Editors, Trevor Thorpe or Robert Horsch (Rapid Communications). This is an opportunity to present critically reviewed papers to the growing body of plant members and subscribers which, along with our Annual Meeting, provides the communication requirements that have been long sought. All regular members of the Plant Cellular and Developmental Biology Division will receive this publication as part of their dues.

## Rapid Communications in Cell Biology—Animal & Plant

This section of *In Vitro Cellular & Developmental Biology* provides expedited review and publication of papers of interest in the broad areas of cell and molecular biology. A separate editor and reviewers facilitate review and publication. Critical, new brief reports of methodology can also be included. For acceptable manuscripts, publication will be within three months of acceptance.

Editorial guidelines can be obtained from the TCA Business Office.

## Journal of Tissue Culture Methods

This quarterly journal emphasizes detailed presentations of laboratory protocols for plant and animal cell, tissue and organ culture. The Journal publishes papers which describe either new methods, techniques whose details have not previously been published, or significant improvements in established methods. Methodological detail greater than is feasible in other types of publications is encouraged. Submitted manuscripts must include documentation of the validity and usefulness of methods by presentation of experimental data or by reference to published work using the method.

All manuscripts are peer reviewed. TCA members can receive the Journal at reduced rates.

## TCA Report

This bimonthly newsletter for the tissue culture professional contains information about meetings in the field, personnel, the placement service, reports of standing and ad hoc committees, branches, divisions and educational information, and national and international news relevant to the field. It is provided to TCA members as part of their dues and to Branch members.

## TCA Membership Roster

To foster communications between members, the TCA publishes every two years a listing of all members, year joined, division, address and telephone number. It is provided to members free of charge.

## Meetings and Congresses

One of the major endeavors of the Association is its Meeting or Congress each June. Sessions range from small, informal round tables to plenary symposia. Invited sessions feature conveners, speakers and topics at the cutting edge of the field. These are augmented by workshops, contributed papers, round tables, poster sessions and a large scientific exhibit program. The meetings are always held at interesting sites throughout the country and draw between 800–1200 people, big enough to attract major speakers, yet small enough for informal discussions with friends. Abstracts for the meeting are due during the first week of January. Details of our Meetings as well as abstract forms can be obtained from the TCA Business Office. The scientific program is usually supplemented by social events such as a barbeque, local attraction, evening at the theater, etc.

The Congress on Cell and Tissue Culture—1994 Meeting of the Tissue Culture Association will be held in Research Triangle Park, North Carolina, June 4–7. Program Chair Mary Ann Lila Smith and Program Co-Chair Howard Hosick are planning multiple symposia, special awards programs, sessions-in-depth, and are inviting contributed papers for platform and poster presentations. The meeting theme "Regulation of Cell and Tissue Differentiation" will deal with a vast array of research projects.



16 mm sound and silent film, VHS video

## Audiovisual Library

The Association maintains a large collection of films and videos on cell culture and cell culture techniques. These range from early classics by Pomerai, Lewis and Rose to most recent accessions by Morgan and Sun.

The films and videocassettes are available to the scientific community at reasonable rates and members are eligible for reduced rates on these rentals. A complete catalog is available from the TCA Business Office. The Audiovisual Committee is anxious to hear from investigators who have films or videocassettes they would like to donate to the Library.

## Educational Courses

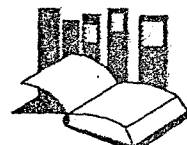
The Association has encouraged various institutions throughout the country to provide basic cell culture courses, and its Education Committee has reviewed course material and provided evaluation services to the course instructors. The TCA has established a certification procedure to acknowledge courses of high quality and competence.

Arrangements are ongoing to conduct in-depth programs for those interested in in vitro cultivation of cells.

Specific course information can be obtained from the Education Committee Chairperson or the TCA Business Office.



Journals



Books

## Supplemental Publications

The Association has arranged with several publishers to offer their publications at reduced rates to Association members at the annual meeting. Publishers such as John Wiley, Academic Press, Kluwer, and Plenum are some that have participated in the past.

## Placement Service

The Association, through the pages of its journal, *In Vitro Cellular and Developmental Biology* and newsletter, *TCA Report*, provides a placement service for members and nonmembers alike. Persons seeking employment can submit a "Candidate Registration Form" available at the Business Office giving a brief description (60–75 words) on the position desired, educational level, experience, geographical area preferred, and any other pertinent data. This service is provided at no charge to members. Non-members will be charged a small fee. Prospective employers from academia and industrial sources with positions available are asked to submit a "Position Listing Form" available at the Business Office giving a brief description of the position available, duties and responsibilities, academic level required, type of institution, and geographical area. A nominal fee for this service is required.

The descriptions will be published in the next available issue of *In Vitro Cellular and Developmental Biology—Animal and Plant* and *TCA Report*. Employment opportunities are distributed to over 3,000 individuals involved directly in cell culture.

At the Annual Meeting, employee and employer binders, containing copies of the completed Placement Forms (with only number visible), will be available at the Registration Desk. Addresses for prospective employees and employer representatives, who have completed forms on file, will be available at the Registration Desk. Employer representatives will do the same. Appointments or interviews can be initiated through the Registration Desk or leaving a message on the message board.

## International Collaboration

Having members from 45 different countries, the TCA is truly an international organization. It has also embarked on a vigorous international effort with the European Tissue Culture Society and the Japanese Tissue Culture Association. Liaisons with each group have been named, and a variety of collaborative efforts are underway in areas such as terminology, importation of cell cultures and patenting.

The Association has an International Collaboration Committee to foster exchange of ideas and encourage participation in meetings and publications.

## Divisions, Branches and Committees

**BRANCHES** of the Association are independent groups of members who meet to foster the exchange of ideas and information. There are currently seven geographical branches and an historical society branch. The current branches are: The California Branch (CAB), Delaware Valley Branch (DVB), Midwestern Branch (MWB), National Capital Area Branch (NCAB), Northeast Branch (NEB), Ohio Valley Branch (OVb), Texas Branch (TXB) and the Tissue Culture History Society Branch (THS). Several branches also offer educational courses.

Members and *non-members* are urged to participate in Branch activities.

**DIVISIONS** of the Association are developed around various disciplines which bring members together with particular technical interests to affect the sharing of specialized information. Members may join a Division at no additional charge. The Divisions and their primary interests are outlined below:

**Vertebrate Division**—The Division emphasizes organ culture, whole embryo culture, organ type differentiation, morphogenesis, and related fields to bring together members interested in the culture of organized, differentiated or differentiating cell systems. The Division presents the Honor B. Fell Award to the best student paper in organ culture at the Annual Meeting.

**Invertebrate Division**—The Division provides a focal point for members whose primary interests are in the culture of cells, tissues and organs from invertebrates. The membership is about evenly divided between those interested in biochemical developmental studies and in pathology. The activities of the Division include sponsoring a round table and session-in-depth at the TCA annual meeting, as well as workshops and conferences.

**Plant Cellular and Developmental Biology Division**—The Division's members have broad interests including vegetative propagation of flowers, trees and shrubs, understanding plant growth and development (especially cell division and the processes of differentiation and morphogenesis), cell fusion, biochemical selection and mutant recovery, and the transfer of genetic materials which cannot be accomplished by normal sexual crosses (plasmids/DNA fragments) from one species to another. The Division presents a training award—The Philip White Award and sponsors invitational symposia and round tables at the TCA Annual Meeting.

All regular Plant Division members will receive the journal *In Vitro Cellular & Developmental Biology*—PLANT as part of their membership. The journal, *Plant Cell, Tissue and Organ Culture*, is also available at a special rate.

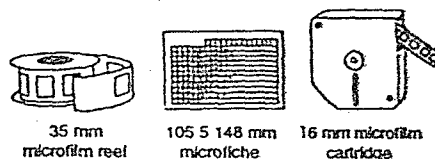
The TCA prides itself on the interdisciplinary talents provided by the Divisions. Special efforts are made to offer scientific sessions integrating topics from mammalian, invertebrate and plant cell biology.

**COMMITTEES:** Member participation is encouraged in both the administrative and scientific communities of the TCA. Some Committees are: Constitution and Bylaws, Education, Membership, Nomination, Program, Publications, Audiovisual, Cell Culture Standardization, Cellular Toxicology, Development, Laboratory Materials and Biosafety, Strategic Long Range Planning, Student Affairs, and Terminology. The TCA also has representatives to organizations involved in cell biology such as AATB, ATCC, IACC, IUMS, BSC, SOT, and NCCLS.

## Decennial Review Conference

The Tissue Culture Association has sponsored every ten years an International Conference which focuses on several key areas of cell biology. Invited participants present reviews of past, present and future studies that place their specialties in perspective.

Conferences have been held in 1946 (Hershey, Pennsylvania), 1956 (Woodstock, Vermont), 1966 (Bedford Springs, Pennsylvania), 1976 (Lake Placid, New York). In 1986 it was held in Hershey, Pennsylvania, celebrating the founding of the Tissue Culture Association in Hershey in 1946. Marshall Nirenberg was the convener in 1976. Keith R. Porter, a Past President of the TCA, convened the 1986 Conference.



## Microform

Arrangements have been made with University Microfilms, Inc. to make available *In Vitro Cellular & Developmental Biology* and the *Journal of Tissue Culture Methods* on microform. The rates are competitive and institutions can obtain any of the most popular microform formats. Details are available from the TCA Business Office.

## Awards

The Cellular Toxicology Award is given to students working in cellular toxicology. The award provides travel support to attend the annual meeting.

The Wilton R. Earle Award is given to the best student paper presented at the Annual Meeting.

The Honor B. Fell Award is available to students doing research with vertebrate cell, tissue or organ culture.

The Hope E. Hopps Award is given to recognize a quality student presentation at the Annual Meeting.

The Joseph F. Morgan Award is used to provide travel funds for Canadian students to attend the Annual Meeting.

The Philip R. White Award is used to supplement expenses of qualified individuals for continuing their education in plant tissue culture.

The Student Travel Award is used to assist students presenting at the TCA Annual Meeting and the John S. Song Foundation Award for Plant Tissue Culture provides support for student(s) presenting plant papers at the TCA Annual Meeting.

## Summary

The TCA is active in all areas of cell culture and can grow only through the support of scientists in the field. If you feel you can contribute or benefit in the areas we cover, please complete the application and join us. You are a vital link in the advancement of science.



# APPLICATION FOR MEMBERSHIP IN THE TISSUE CULTURE ASSOCIATION, INC.



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☐ Regular—\$80

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☐ Student—\$25\*

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☐ Life—\$850

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Last

First

Middle Initial

(Dr, Mr, Ms, etc.)

Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State/Province, Country \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_

Telephone \_\_\_\_\_

Facsimile (FAX) \_\_\_\_\_

Degrees\* \_\_\_\_\_

Degree

Institution

Date

Degree

Institution

Date

TCA Division Affiliation Requested (No additional charge)

☐ Plant

☐ Invertebrate

☐ Vertebrate

## MATRIX DESIGNATIONS

### RESEARCH AREA(S) AND AREA(S) OF SPECIALIZATION

#### ☐ INVERTEBRATE, ☐ VERTEBRATE, AND ☐ CELLULAR TOXICOLOGY

☐ Biotechnology — ☐ Industrial and applied applications; ☐ large-scale production; ☐ technology transfer; ☐ in vitro fertilization; ☐ bioprocessing; ☐ genetic engineering; ☐ in vitro alternatives; ☐ transgenes

☐ Cellular and Molecular Toxicology — ☐ In vitro alternatives; ☐ Industrial and environmental concerns; ☐ genotoxicity; ☐ chemical carcinogenesis in vitro

☐ Cellular Models — ☐ Developmental biology; ☐ cardiovascular studies; ☐ anatomy and cell biology; ☐ in vitro alternatives; ☐ cell culture of tissues and organs; ☐ development of cell culture systems; ☐ cellular aging

☐ Growth, Differentiation and Senescence — ☐ Embryology; ☐ teratology; ☐ signal transduction; ☐ oncogenes; ☐ oncology; ☐ developmental biology; ☐ nutrition and metabolism; ☐ in vitro alternatives; ☐ cellular aging; ☐ growth; ☐ growth factors; ☐ apoptosis

☐ Genetics — ☐ Gene therapy; ☐ cytogenetics; ☐ immunogenetics; ☐ genetic engineering; ☐ stem cell isolation and cultivation; ☐ in vitro fertilization; ☐ transgenes; ☐ molecular genetics; ☐ apoptosis

☐ Infectious Diseases/Cellular Pathology — ☐ Protozoology; ☐ virology/AIDS; ☐ mycoplasma; ☐ in vitro alternatives

☐ Immunology — ☐ Immunogenetics; ☐ hematopoiesis; ☐ in vitro alternatives; ☐ hybridomas; ☐ recombinant antibodies

#### ☐ PLANT RELATED AREAS

☐ Cell Biology — ☐ Structure—function; ☐ cell differentiation; ☐ cell cycle

☐ Developmental Biology — ☐ Embryogenesis; ☐ organogenesis; ☐ gametogenesis

☐ Genetic Transformation — ☐ Transformation methods; ☐ transgene structure/function; ☐ field evaluation

☐ Micropropagation — ☐ Cloning; ☐ disease indexing; ☐ scale-up; ☐ contamination control; ☐ acclimation; ☐ bioreactors; ☐ automation

☐ Physiology — ☐ Regulatory processes; ☐ plant growth regulators; ☐ primary metabolism

☐ Secondary Metabolism — ☐ Biotransformation; ☐ pharmaceuticals

### EMPLOYER

☐ College or University; ☐ Federal Government; ☐ State Government; ☐ Other Government; ☐ Commercial (profit) Org.; ☐ Not for Profit Org.; ☐ Self Employed; ☐ Other; ☐ Retired; ☐ Unemployed

Membership dues include a subscription to *In Vitro Cellular & Developmental Biology—ANIMAL* or *—PLANT* (\$25) and the *TCA Report* (\$5). Membership is paid for the calendar year. Applications received after November 1 will apply to the next year unless specified.

\*Students should list anticipated month/year of graduation and type of degree. Student membership is limited to four years, predoctoral students only.

### SPECIAL RATES FOR ADDITIONAL PUBLICATIONS

☐ *Journal of Tissue Culture Methods* (Vol. 15, 1993) (\$60)

☐ *Plant Cell, Tissue and Organ Culture* (Vols. 32–35, 1993) (\$165).

☐ *In Vitro Cellular & Developmental Biology* (Additional rate for BOTH Animal and Plant Sections) (\$50)

NOTE: Orders MUST be placed by March 31 of current year; orders received after March 31 will be returned.

Method of payment:

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Additional Correspondence should be directed to: Tissue Culture Association, 8815 Centre Park Drive, Suite 210, Columbia, MD 21045 USA, (410)992-0946, FAX (410)992-0949

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# GEOGRAPHICAL INDEX

## UNITED STATES

( ) Division Affiliation

### ALABAMA

Chang, Irma (P)  
Casper, Paula  
Diner, Alex (P)  
Henderson, James (P)  
Moore, Robert  
Moriarty, Debra  
Orr, Mary (V)  
Porobo-Dessai, Anant (P)  
Prakash, C (P)  
Sharma, Govind (P)  
Strada, Samuel (V)  
Stringfellow, David (V)  
Wilson, Glenn (V)

### ARKANSAS

Al-Khayri, Jameel (P)  
Goldstein, Samuel  
Huang, Feng (P)  
Reed, Josephine (V)

### ARIZONA

Cupp, Mary (I)  
Demetrius, Janis (V)  
Haussler, Carol (V)  
Laird II, Hugh (I)  
Leibovitz, Albert (V)  
Lewis, Byron (V)  
Lin, Yiqun (P)  
Powell, Marianne  
Shapiro, Joan (V)  
Stanfield, Alice  
Ulreich, Judith (V)  
Williams, Stuart (V)

### CALIFORNIA

Adams, Tom (P)  
Aja, Teresa (V)  
Allen, Katherine (V)  
Allen, Lynn (V)  
Allison, Glenn (V)  
Anderson, Marika (V)  
Arthur, Marika (V)  
Bacher-Wetmore, Bea (V)  
Baclig, Lita  
Bautista, Eddie (V)  
Beattie, Gillian (V)  
Beck, James (V)  
Belisle, Barbara (I)  
Bell, Cindy  
Benton-Vosman, Trish (V)  
Bethell, Delia (V)  
Bissell, Mina  
Bowman, Phillip (V)  
Brasch, Klaus  
Brink, Kevin (P)  
Buchsbaum, Ralph (I)  
Buhring, Gertrude (V)  
Caillaud, Relda  
Capla, Matthew (V)  
Caplin, Samuel (P)

Cavazos, GundaLope (P)  
Celeri, Chris (I)  
Ceriani, Roberto  
Chandler, William  
Cheng, Josephine (V)  
Christensen, Julie (V)  
Chu, Irwin (P)  
Chuppa, Sandra (P)  
Coker, Mary (P)  
Collier, Kathleen (V)  
Cooke, Maggie  
Cooper, Edwin (I)  
Cooper-Smith, Susan (P)  
Cortesi, Joseph  
Cooke, Rosanne  
Cunanan, Dolores (P)  
Cunha, Gerald (V)  
Daniallinia, Nancy (V)  
Deaver, Glenn  
Deitch, Arline (V)  
Denton, Shelly (V)  
Driver, John (P)  
Drucker-Pursell, Debbie (V)  
Dulbecco, Renato  
Dunham, Wolcott  
Dunnebacke-Dixon, Thelma (V)  
Durzan, Don (P)  
Ebert, Steven (V)  
Edwards, Benjamin (V)  
Ehmann, Ursula  
Elmore, Eugene (V)  
Emershad, Richard (P)  
Estridge, Trudy (V)  
Evans, Thomas (V)  
Finkbeiner, Walter  
Firoozabady, Ebrahim (P)  
Ford, Mary (V)  
Freeman, Gustave (V)  
Fung, Henry (I)  
Gamble, Mary (V)  
Glushko, Victor  
Gong, Thomas (I)  
Grady, David (V)  
Green, Carol  
Greene, Joanne (V)  
Gruenert, Dieter (V)  
Guo, Hui-zan  
Hales, Joanna (V)  
Hancock, Miriam (V)  
Hansen, Judith (P)  
Hardin, Robert  
Harris, Kathleen (V)  
Harris, Morgan (V)  
Haug, James  
Haylick, Leonard (V)  
Hera, Colleen (P)  
Hewitt, Eleanor (V)  
Hill, Colin (V)  
Hill, Ronald (V)  
Hincenbergs, Mara  
Hoffman, Robert  
Honeycutt, Rhonda (P)  
Hooser, Lawrence (V)  
Hopkins, Jo-Antoine (V)  
Hu, Can

Hua, Sui-Sheng (P)  
Huang, Ji Ming (P)  
Ishida, Betty (P)  
Isseroff, Rivkah (V)  
Jamgotchian, Nora  
Jankay, Peter (P)  
Jemtrud, Susan  
Jenderek, Maria (P)  
Juillard, Guy (V)  
Karasek, Marvin (V)  
Kelly, Christophe (V)  
Khafiz, Deborah (V)  
King, Bernard (V)  
King, Kathleen (V)  
Kloss, Jean (V)  
Kotts, Claire (V)  
Kovacs, Shirley (V)  
Kramer, Susan (V)  
Kwoh, Theodore  
LaMotte, James (V)  
Landeon, Lee (V)  
Leavitt, Ondrya D M (V)  
Lebaron, Richard (V)  
Lefler, Henry  
Leiderman, Lisa (V)  
Leighton, Joseph (V)  
Lembach, Kenneth (V)  
Lennette, Edwin (V)  
Li, Lingna  
Lin, Ming (V)  
Linkhart, Thomas  
Lois, Rodrigo  
Lyons, Sheila (V)  
Maiorella, Brian (V)  
Malkowski, Marcia (V)  
Mason, Munyaradzi (P)  
Masover, Gerald (V)  
Matsumoto, Steven (V)  
Matsuoka, Karen (V)  
May, Laurie (V)  
Mayers, Anna (P)  
Meider, Philip (V)  
Mercola, Dan (V)  
Meyer, Fred  
Meyer, Marlene  
Milikova, Elena (P)  
Miller, Elsa  
Miramon, Sally  
Miranda, Quirinus (V)  
Mirhashermi, Sahba  
Monroe, Kathleen (V)  
Montgomery, Tana (I)  
Morrow, Phil  
Mullins, Brian (V)  
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Mutter, Linda  
Nandi, Satyabrata (V)  
Narayan, K (V)  
Naughton, Brian (V)  
Nayak, Shankar (V)  
Nicholson, Marc (V)  
Nieffenegger, Randolph  
Oakes, Janette (P)  
Ochs, Robert (V)  
Oda, Roger

Oiney, Arthur (P)  
Oster Granite, Mary (V)  
Owens, John (I)  
Parandooosh, Zahra (V)  
Peterson, Jerry (P)  
Petrossian, Ashot (V)  
Pieper, Mark (P)  
Plummer Cobb, Jewel (V)  
Poole, Donna (V)  
Potere, Edmund (V)  
Quan, Shirley (P)  
Rajasekaran, Kanniah (P)  
Rance, Iann (P)  
Rangan, Thirumale (P)  
Redenbaugh, M (P)  
Rhodes, Carol (P)  
Richardson, William (P)  
Rosenthal, Sharon (P)  
Rudd, Colette (V)  
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Safarik, Robert (I)  
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Schneider, Jerry (V)  
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Schwarz, Richard  
Schwerdt, Carlton (V)  
Sherard Braa, Sonia (V)  
Siegel, Edward (V)  
Silagi, Selma  
Simon, Timothy (V)  
Smith, R  
Smith, Richard (P)  
Spahn, Gerard (V)  
Spindle, Akiko (V)  
Stafford, Dabra  
Stampfer, Martha (V)  
Stanbridge, Eric (V)  
Starkey, Karen (P)  
Stengel, Jess (V)  
Sturtevant, Ann (P)  
Summerfelt, Kristin (P)  
Sutton, Charles (V)  
Swisher, David  
Tabancay, Teodora (P)  
Talamantes, Frank (V)  
Thompson, Stewart  
Toibert, William (V)  
Triglia, Dennis (V)  
Trulson, Anna (P)  
Tuan, Jessie (V)  
Tust, Ibrahim (V)  
Turner, Joann (P)  
Tusa, Daniel (P)  
Unruh, Cynthia  
Velarde, Jorge  
Viss, Peter (P)  
Vogt, Marguerite  
Weaver, Jack  
Weeks, James (P)  
Weiss, Stefan (V)  
Welsh, Kent (P)  
Wergadal, Jon (V)  
Wickas, Mary (I)

Williams, James  
Williams, Terry (V)  
Williamson, Valerie (V)  
Wilson, Barry (V)  
Wong, Anny  
Wormsted, Mary (V)  
Wright, Lawrence (P)  
Wu, Reen (V)  
Yamaguchi, Jayme (V)  
Yu, Cheng (V)  
Zankowski, Paul (P)  
Zhang, Shipang (P)

#### COLORADO

Clarke, Sara  
Darr, Ginny (V)  
Gabridge, Michael (V)  
Ham, Richard (V)  
Kao, Fa (V)  
Panetta, Lee (P)  
Puck, Theodore  
Quissell, David (V)  
Safadi, Farida (P)  
Smith, Cathy (P)  
Smith, J Thomas (P)  
Stein, Gretchen  
Todd, Paul (V)

#### CONNECTICUT

Brand, Mark (P)  
Cuono, Charles (V)  
Deleon, Rodney (V)  
Doonan, Barbara (P)  
Dye, Frank (V)  
Hawrylik, Steven  
Kiyomoto, Richard (P)  
Kouri, Richard (V)  
Lawrence Jr, Robert (P)  
Mangano, MaryLou (P)  
Marri, Michael (P)  
Marcus, Philip (V)  
Mehos, Karen (V)  
Mella, Sharon (V)  
Messier, Arthur (V)  
Moussatos, Vasiliana  
Pellett, Ocean (V)  
Ruddle, Frank (V)  
Singha, Suman (P)  
UST, Inc (P)

#### DISTRICT OF COLUMBIA

Albright, Julia (V)  
Billups, Lloyd  
Chung, Ho (V)  
Harrison, Edward (V)  
Herman, Mary (V)  
Jackson, Marvin (V)  
Leak, Lee (V)  
Liang, Kate (V)  
May, Sterling (V)  
Nadolney, Carlton (V)  
Redman, Robert (V)  
Schneider, Imogene (V)

#### DELAWARE

Bane, William  
Covington, Maryanna (V)  
Gallagher, John  
Hall, Daniel (V)  
Jones, Todd (P)  
Kitto, Sherry (P)  
Klein, Theodore (P)  
Lewis, Ronald (V)  
Nardone, Robert (V)  
Neubauer, Russell (V)  
Ruben, Regina (V)  
Slacum, Jeffery (V)  
Thomas, Beth (V)  
Waits, Michael (V)

#### FLORIDA

Aleo, Joseph (V)  
Alespotti, Gabriel (V)  
Alnaoi, Abdul-Aziz  
Andres, Joel (V)  
Becker, Jeanne (V)  
Brown, Ken  
Burke, Martha (P)  
Cantliffe, Daniel (P)  
Compton, Michael (P)  
Donovan, Janet (V)  
Ferkovich, Stephen (I)  
Gower, William (V)  
Gray, Dennis (P)  
Griffis, John (P)  
Gump, Jana (V)  
Hassell, Thomas  
Hefti, Arthur (V)  
Heller, Richard (V)  
Hennen, Gary (P)  
Holmgren, Nelda  
Klein, Paul (I)  
Kratz, Kent (P)  
Lawrence, Pauline (I)  
Lichter, Wolf (V)  
Malinin, Theodore  
Maruniak, James (I)  
McKenty, Alexandra (P)  
Morse, Martin (V)  
Nicosia, Santo (V)  
Nielsen-Palacios, Beatriz  
Oberlander, Herbert (I)  
Oglesby, Raymond (P)  
Pomponi, Shirley (I)  
Reiser, Raoul (V)  
Schultz, Clyde (V)  
Shapshak, Paul (V)  
Sigel, Michael  
Silverstein, Daniel  
Strode, Randall (P)  
Thomas, William (V)  
Vasil, Indra (P)  
Weigel, Russell (P)  
West, Shertie (P)  
Wilson, Robert (P)  
Wood, William

#### GEORGIA

Bowen, John (V)  
Brockbank, Kelvin (V)

Chappell, W (V)  
Cheng, Ming (P)  
Drumheller, Brian (V)  
Dunbar, Kerry (P)  
Edwards, Betty (V)  
Hamada, Spencer (V)  
Lapp, Carol (V)  
Lucas, Paul (V)  
Merkle, Scott (P)  
Nadjicka, Mary (V)  
Ozias-Akins, Peggy (P)  
Paulsen, Douglas (V)  
Schuster, George (V)  
Seal, Bruce (V)  
Seiler, Christine (V)  
Sommer, Harry (P)  
Tan, David  
Weber-Levine, Margaret (V)  
Willis, Judith (I)  
Young, Henry (V)

#### HAWAII

Kuehnle, Adelheid (P)  
Loh, Philip (I)  
Matsumoto, Tommy  
Matsumoto, Tracie (P)  
Tanabe, Michael (P)  
Uchima, Francis-De (V)  
Yee, Herbert (V)

#### IDAHO

Rafi, Malik (P)

#### ILLINOIS

Abbott  
Aneskievich, Brian (V)  
Aves, Karessa (P)  
Aydelotte, Margaret (V)  
Balwierz, Patrick (V)  
Beecher, Christopher (P)  
Bhatt, Raj (V)  
Biologos Inc  
Boehs, Kenneth (V)  
Charles, Audrey (P)  
Chou, Tau-San (P)  
Davidson, Richard (V)  
Decker, Denise (V)  
Digiovanni, Laura (V)  
Eisenreich, Robert (P)  
Engelmann, Gary (V)  
Genovesi, A (P)  
Giles, Richard (V)  
Gonzales, Federico (V)  
Goodheart, Clyde (V)  
Hauptmann, Randal (P)  
Hubchak, Susan (P)  
Iannaccone, Philip  
Lab-Line  
Lewis, Nancy Jo (V)  
Magenta Corporation  
Medich, Catherine (P)  
Meyer Jr, Martin (P)  
Misikita, Weston (P)  
Montalto, Joseph  
Nielsen, James (V)  
Oshiro, Yuki (V)

Peterson, Alice  
Phillippe, Mark  
Pipar, Charles (V)  
Precision Sci Inc  
Preece, John (P)  
Radosevich, James (V)  
Robertson Jr, Abel (V)  
Rosen, Steven  
Ryan, Jon (V)  
Smith, Mary (P)  
Smith, Stephen (V)  
Wass, John (V)  
Wicholm, Jack (P)  
Wilbanks, George (V)  
Yingling, Richard (P)

#### INDIANA

Balcavage, Walter  
Black, Ann (V)  
Bodar, George (V)  
Colodi, Paul (V)  
Culbertson, Clyde (I)  
Dougherty, George (V)  
Dunn, Joanne  
Fraser Jr, Malcolm (I)  
Healy, Michael (P)  
Huill, Robert (V)  
Jacobsen, Linda (V)  
Jonas, Rhonda (V)  
Kellogg, Barb (V)  
Kevorkian, Melissa  
Klaunig, James  
Lamar, Carlton (V)  
Laska, Dennis  
McAteer, James (V)  
McClure, Don  
Merriman, Ronald (V)  
Palmer, Catherine (V)  
Schnapp, Sherry (P)  
Stabler, Timothy (V)  
Whipple, Andrew (V)  
Wilson, Kathryn (P)  
Yates, Willard (P)

#### IOWA

Betz, Steven (P)  
Bidney, Dennis (P)  
Butlock, William (P)  
Hunter, Clifford (P)  
Kovar, Jan (V)  
Labrecque, Douglas (V)  
Lin, Jim  
Lovig, Charles (V)  
Maddock, Sheila (P)  
Marsh, Wallace (P)  
McNabb Jr, Harold (P)  
Mishra, Ken (P)  
Nunez, Victor (P)  
Ranch, Jerome (P)  
Robertson, Diane (P)  
Ross, Margit (P)  
Sandahl, Jeanne (P)  
Schultze, Jean (V)  
Sklarsh, Michael (V)  
Songstad, David (P)  
Thomas, Laurie (P)  
Thomas, Phillip (V)

Tomes, Dwight (P)  
Townsend, Jeffrey (P)  
Welter, C (V)  
Wessman, Stephen (V)  
Wick, Donald (V)

#### KANSAS

Bridges, Susan  
Festen, Richard (V)  
Hein, V (V)  
Keathley, Jane (V)  
Kitos, Paul (V)  
Macgregor, Ronal (V)  
Rintoul, David  
Sears, Roëin (P)  
Tremmel, Benjamin (P)  
Troyer, Deryl (V)  
Tully, Robert  
Wyatt, Diane (V)

#### KENTUCKY

Bibbins Jr, Paul (V)  
Collins, Glenn (P)  
Kaul, Karan (P)  
Kochhar, (T)  
Turker, Mitchell (V)  
Yorke, Glee (V)

#### LOUISIANA

Claycomb, William (V)  
Coffman, Bert (V)  
Earley, Elizabeth  
Ellis, Lehman (I)  
Finley, Joëlle (V)  
Githens, Sherwood (V)  
Huot, Rachel (V)  
Kasten, Frederick (V)  
Kviatys, Peter (V)  
Newsome, David  
Parker, Sharon (V)  
Redding, Tommie  
Truax, Robert (V)

#### MAINE

Baker Company  
Beauregard, Laurent (V)  
Brum, Victor  
Casey, Kathleen (V)  
Coman, Dale  
Diaz-Sala, Carmen (P)  
Nicholson, Bruce (V)  
Smagula, John (P)  
Waymouth, Charity (V)

#### MARYLAND

Arterburn, Linda (V)  
Aycok Jr, Marvin (P)  
Barle, Michael (V)  
Barker, Lenore  
Blackstone, Susan (V)  
Blomster, Ralph (P)  
Boyd, Ann (V)  
Bozeman, F (V)  
Bradshaw, June (V)

Buck, Charles (V)  
Buterbaugh, Noel (P)  
Chandler, Donna  
Curren, Rodger  
Custer, Linda (V)  
Dasch, Gregory (V)  
Duff, James (V)  
Ellwood, Kathleen (V)  
Evans, Virginia  
Fang, Lily  
Fenwick, Linda (I)  
Finch, Robert (V)  
Fine, Donald (V)  
Fish, Donald (V)  
Flynn, Thomas (V)  
Frazier, John (V)  
GIBCO/BRL  
Goldberg, Alan  
Green, Sidney (V)  
Guttman, Helene (V)  
Hamburger, Anne (V)  
Hammerschlag, Freddy (P)  
Harbell, John (V)  
Hardman, Anne  
Harrison, Stephen (V)  
Hausman, Steven (V)  
Hay, Robert (V)  
Hoffeld, J (V)  
Hopkins III, Ralph (I)  
Iype, P (P)  
Jacobson, Elizabeth (V)  
James, Darlel (I)  
Johnson, James  
Johnson, Roger  
Jong, Shung (P)  
Kahn, Carolyn (V)  
Kaighn, M Edward (V)  
Kamo, Kathryn (P)  
Kaneski, Christine (V)  
Kaszynski, Edwin (V)  
Kemp, Christophe (V)  
Kruk, Patricia (V)  
Kuchera, Mary (V)  
Lauter, Carl (V)  
Leberherz III, William (V)  
Licht, Ulrike (V)  
Loeb, Marcia (I)  
Lynn, Dwight (I)  
Marks, Edwin  
McCallum, Anne (V)  
McCormick, Anna  
McGarity, Gerard (V)  
McQuilkin, William  
Mehm, William (V)  
Mitchell, Freddie  
Moorhead, Paul (V)  
Noguchi, Phillip (V)  
Park, Sang (V)  
Pritchard, Daryl (V)  
Rafajko, Robert (V)  
Reed, Mary (V)  
Reid, Yvonne (V)  
Rhoads, Laura (V)  
Roberts, Veronica (V)  
Roddy, Martin (V)  
Rose, Noel  
Rudzinski, Irene (V)  
Sanford, Katherine  
Schaeffer, Gideon (P)

Schiff, Leonard (V)  
Schuman, Richard (V)  
Shannon, John  
Shearn, Allen (I)  
Shen, Ding-Wu (V)  
Shimada, Tomiko (V)  
Skehan, Philip (V)  
Smith, Camelia  
Smith, William (V)  
Steele, Vernon (V)  
Talbot, Neil (V)  
Taylor, William (V)  
Trifillis, Anna (V)  
Tucker, Robert (V)  
Tully, Joseph (V)  
Van Der Haegen, Brigitte  
Vaughn, James (I)  
Vincent, Monroe  
Volpe, Donna (V)  
Walker, Karen (V)  
Walker, Tracey  
Wallace, Kathleen (V)  
Waters, David (V)  
White, Jill (V)  
Whitman Jr, James (V)  
Winkles, Jeffrey (V)  
Yaverbaum, Sidney (V)  
Zimmerman, Richard (P)

#### MASSACHUSETTS

Adamson, Samuel  
Amos, Harold  
Berger, Joseph (V)  
Bradley, David  
Bronson, Rebecca (V)  
Bucher, Nancy (V)  
Caleb, Benjamin (V)  
Cheatham, Ronald (P)  
Cheplick, Susan (P)  
Chlapowski, Francis (V)  
Chung-Welch, Nancy (V)  
Collaborative (V)  
Costar Corporation (V)  
Crespi, Charles (V)  
D'Amore, Patricia (V)  
Davis, Elizabeth (P)  
Davis, Vanessa (V)  
Dimond, Patricia  
Faircloth, Glynn (V)  
Fay, John  
Flanerty, Paula (V)  
Gabriels, Joe  
Gay, Roger (V)  
Geyer, Robert (V)  
Gimbronejr, Michael (V)  
Green, Howard  
Hamois, Marion (V)  
Hoffee, Mary  
Hsley, Stephen (V)  
Ingber, Donald  
Kaltenbach, Jane (V)  
Kielpinski, Grace (V)  
Klausner, Mitchell (V)  
Krok, Kristina (V)  
Kusmik, William (V)  
Lees, Ann (V)  
Lyeria, Timothy (V)  
Maddalo, Francis (I)  
Mayor, Sharon (V)  
Mays, Peter K (V)  
McCarrol, Laura (I)  
Monette, Francis (V)  
Moore, Patrick (V)  
Parker, Adrian (V)  
Pitt, Aldo  
Pugh, Gordon (V)  
Radner, Babette (I)  
Reisert, Patricia (P)  
Rheinwald, James (V)  
Rigney, David (V)  
Rodrick, Mary (V)  
Ryan, Una (V)  
Schwartz, Edith (V)  
Shek, William  
Sidman, Richard (V)  
Slakey, Linda  
Tuttle, Robert (V)  
Weathers, Pamela (P)  
Wright, Mary (V)  
Wu, Ying-Jye (V)  
Zetter, Bruce  
Ziegenmeyer, James (P)

#### MICHIGAN

Al Saadi, Abdul  
Ar, Diane  
Babcock, Merrill (V)  
Bacon, James (V)  
Bernstein, Isadore  
Biggar, Sandra (V)  
Castor, C  
Chang, Chia (V)  
Chen, Jenn  
Chopra, Dharam  
Chu, Ernest (V)  
Cole, Clayton  
Diglio, Clement (V)  
Falstad III, Clarence (P)  
Floyd, Alton (V)  
Ginsberg, Leonard (V)  
Hamelehle, Katherine (V)  
Hanks, Carl  
Hayashi, Hajime (V)  
Hillegas, William (V)  
Hukku, Bharati (V)  
Karnosky, David (P)  
Kuentsel, Sandra  
Lande, Mauricio (V)  
Levine, Seymour  
Loch-Carusio, Rita (V)  
Maassab, Hunein  
Maher, Veronica (I)  
Marty, Mary (V)  
May, Roger (P)  
McCormick, J Justin (V)  
Onoda, James (V)  
Perrin, Eugene  
Peterson Jr, Ward (V)  
Petrella, Diane (V)  
Reddan, John (V)  
Reynolds, John (P)  
Rivera, Evelyn (V)  
Schwartz, Shirley (V)  
Steen, David (P)  
Steinert, Bruce (V)  
Sun, Elena (V)

Trosko, James (V)  
Vaughan, Frizell (V)  
Waldon, Daniel  
Wicks, John (V)

#### MINNESOTA

Bailey, Anita (P)  
Brako, Emmanuel (V)  
Bronson, David (V)  
Doley, William (P)  
Fallon, Ann (I)  
Hirschel, Mark (V)  
King, Pin  
Koval, Thomas (I)  
Kozza, Donald (P)  
Kurtz, Timothy (I)  
Munderloh, Ulrike (I)  
Osgema Jr, Theodore (V)  
Pfenning, Kathleen (V)  
Pijut, Paula (P)  
Sheppard, John  
Spreeman, Mark  
Truckenmiller, Susan  
Tsang, K (I)  
Umbaugh, Jerry (V)  
Vfang, Andrew (P)  
Weaver, Cyprian

#### MISSOURI

Armstrong, Charles (P)  
Avery Jr, John (P)  
Burkey, Jennifer (V)  
David, John (V)  
Delgado, Michael (V)  
Drosta, Donna (P)  
Feder, Joseph (V)  
Goodman, Cynthia (I)  
Grasela, James (I)  
Hanning, Gary (P)  
Hinchee, Maud (P)  
Howe, Arlene (P)  
Howlett, Ailyn (V)  
Johnson, Terrell (I)  
Marsh, Lurline (P)  
Mawhinney, Thomas (V)  
McGrath, Michael (V)  
McIntosh, Arthur (I)  
Moe, Aaron (V)  
Olander, Jitka (V)  
Orr, Bobby (V)  
Otsuka, Fyllis  
Petersen, William (P)  
Sharp, David  
Sigma Cell Culture (I)  
Wambugu, Florence (P)  
Ward, Dannelta (P)  
Westar Jr, William (V)  
Wolfe, Richard (V)

#### MISSISSIPPI

Cameron, Joseph (V)  
Miller, Norman (V)  
Randall, Emer  
Reichert, Nancy (P)  
Uddin, M  
Yamamoto, Masako (P)

#### MONTANA

McCoy, Thomas (P)  
Streett, Douglas (I)

#### NEBRASKA

Beattie, Craig (V)  
Dubes, George (V)  
Ernst, Stephen (P)  
Foley, John (V)  
Kuszynski, Charles (V)  
Nordahl, Carl (P)  
Read, Paul (P)  
Reihart, Helen  
Rizzino, Angie (V)  
Sculthorp, James (V)  
Sharp, John (V)

#### NEW HAMPSHIRE

Fay, Michael (V)  
Fletcher, Ronald (V)  
Minocha, Rakesh (P)  
Pettengill, Olive (V)

#### NEW JERSEY

Ackerman, Eugene (P)  
American Cyanamid (V)  
Angelosanto, Frank (V)  
Ban, George  
Barker, Sue  
Bellco Glass Inc  
Bernhofer, Lauren (V)  
Buldo, Aileen (V)  
Butterfield, Walter (P)  
Chin, Chee-Kok (P)  
Colby, Richard (V)  
Coleman, Edward (V)  
Conelli, Lewis (V)  
Czirbik, Rudolf (V)  
De Vito, Geraldyn  
DePinto, Wanda  
DeVita, Lynn (V)  
Doran, Thomas (V)  
Douchenkov, Viatchesla  
Familletti, Philip (V)  
Gillette, Ronald (V)  
Gould, Sandra (V)  
Gray, Harry (V)  
Hansen, Robert (V)  
Hartman, Christina (P)  
Hill, Helene  
Hornberger, Elizabeth (V)  
Hugo, Ronald (V)  
Jackson-Matthews, Dianne (V)  
Jones, Christopher (V)  
Juneja, Chandni (I)  
Katz, Marion (V)  
Kontas Glass Co  
Kravec, Cynthia  
Lasfargues, Etienne (V)  
Lipman, Jack (V)  
Loderstadt, James (V)  
Mandakas III, George (V)  
Maramorosch, Karl (I)  
Martin, Katherine (V)  
Maslany, Steven

McMorrow, Lydia (V)  
Nemacek, Georgina (V)  
Newman, Michael  
Nuss, Donald (P)  
Olive, Diane (V)  
Orehostky, Gerald (V)  
Ortega-Nanos, Marie (V)  
Ozer, Harvey (V)  
Pascale, Andrea  
Przygoda, Robert  
Robison, Alice (V)  
Rodriguez, David (P)  
Romanczyk, Leo (P)  
Rosanoff, Eugene (V)  
Rothstein, Edwin (V)  
Ruben, Zadok (V)  
Schepis, Lorraine (V)  
Silberklang, Melvin (V)  
Singleton, Judith (V)  
Smith, Judith (V)  
Smith, Wendy (P)  
Stott, Charles (V)

Sturmer, Amy (V)  
Truitt, Theresa  
Tumilowicz, Joseph (V)  
Varga, Sally (V)  
Wahrman, Miryam (V)  
Weiner, Alan  
Worthington (V)  
Zacka, James (V)

#### NEW MEXICO

El-Sharif, Ahmed (P)  
Hubstenberger, John (P)  
Kerkof, Paul (V)  
Ladyman, Juanita (P)  
Lechner, John  
Massoudi, Mark (P)  
McLaren, Leroy (V)  
Phillips, Gregory (P)  
Sarto, Gloria  
Shah, Vallabh (V)  
Stevenson, Robert (V)  
Stroud-Lee, Agnes

#### NEW YORK

Adelson, Mark (V)  
Alconox Inc  
Altman, David (P)  
Ambrosino, Claire (V)  
Ammirato, Philip (P)  
Babich, Harvey (V)  
Baltimore, David  
Barile, Frank (V)  
Battista, Paul (V)  
Biedermann, Ilse (P)  
Biedler, June  
Borenfreund, Ellen (V)  
Brown, Bruce (V)  
Cady, David (V)  
Cardillo, Frances (P)  
Chandler, Suzanne  
Chang, Ming-Mei  
Cohen, Leonard (V)  
Cooper, Norman (V)  
Curley, Dennis (V)

Danes, Betty  
Danner, Douglas (V)  
De Marie, Curator, Ernest (P)  
Dehn, Paula (V)  
Doganlar, Sami (P)  
Duff, Ronald  
Dwyer, Daniel (V)  
Easton, Christophe (I)  
Evans, Irene (V)  
Fike, Richard (V)  
Filazzola, Rocco (V)  
Fischman, Gary (V)  
Fisher, Paul (V)  
Fong-Zuzolo, Betty (P)  
Ford, Sue (V)  
German III, James (V)  
Godman, Gabriel (V)  
Godwin, Glenn  
Goldfeder, Anna  
Golemme, Steven (V)  
Gorfien, Stephen (V)  
Grefrath, Phillip (V)  
Hainsworth, Sharon  
Hamberger, John (V)  
Hirschhorn, Kurt  
Hitzeman, S Jean (V)  
Holst, Patricia (V)  
Hopkins, Jane (I)  
Horst, R (P)  
Horwath, Kathleen (I)  
Hou, Hsing  
Intergen Company  
Jayme, David (P)  
Johnston, Dean (V)  
Kaja, Jayasree  
Kan, Mikio (V)  
Keese, Charles  
Kikkert, Julie (P)  
Kingston, Gina (V)  
Kostyniak, Paul  
Krikorian, Abraham (P)  
Kwasniewski, Barbara  
Laczynski, Stephen (P)  
Lederle-Praxis  
Lee, Bywng (P)  
Lehman, John  
Leong, Ina  
Lobo, Juliet  
Magargal, Wells (V)  
Majeska, Robert (V)  
Masters, Barbara (I)  
Masters, Linda (P)  
Maynard, Charles (P)  
Mehta, Bipin (V)  
Meizer, James  
Miranda, Armand  
Morey, Thomas (V)  
Nikon Inc  
Oathout, James (P)  
Obendorf, Ralph (P)  
Ochoa Jr, Manuel (V)  
Owen, Thomas (V)  
Pagan-Charry, Irida (V)  
Palmoski, Marshall (V)  
Pataky, Douglas  
Pauli, Bendicht (V)  
Peters, Crispin  
Petruso, Joseph (V)  
Price, Paul (V)

Quaroni, Andrea  
Roemer, Elizabeth (V)  
Sandford, Nancy  
Sato, J (V)  
Schepper Vaughan, Jeanette (V)  
Scher, Barbara (V)  
Scher, William (V)  
Shopsis, Charles (V)  
Slocum, Harry (V)  
Smith, Harold (P)  
Smith, James (V)  
Spengler, Barbara (V)  
Stain, Maxine (V)  
Steinberg, Bettie (V)  
Sutherland, Betsy (V)  
Tartock, Donald  
Taub, Mary  
Telang, Nityanand (V)  
Tepper, Herbert (P)  
Tikins, Mary Lynn (I)  
Tres, Laura (V)  
Trowbridge, Richard (V)  
Tsai, Jir  
Van Buskirk, Robert (V)  
Weppner, David (V)  
Whiting, Debra (V)  
Williams, Gary  
Zimmerman, Jay (V)  
Zuzolo, Ralph (I)

#### NORTH CAROLINA

Alston-Mills, Brenda  
Amerson, Henry (P)  
Anderson, Margaret (V)  
Arnold, Julia  
Arnst, John (P)  
Bale, Shankar (V)  
Benane, Shawnee (V)  
Blackman, Carl  
Casto, Bruce (V)  
Chang, Yin-Fu (P)  
Culberson, Cathy (V)  
Dupuis, Isabelle (P)  
Finch, Dan (P)  
Gerlach, Dianne (P)  
Grisham, Joe  
Holder Jr, Walter  
Iglehart, (J)  
Kalmus, Gerhard (V)  
Kalmus, Karin (V)  
Kataria, Yash  
Kaufman, David (V)  
Klintworth, Gordon (V)  
Kramer, Catherine (P)  
Kraus, William (V)  
Launis, Karen (P)  
Loggie, Brian  
ManTech (V)  
McCarty, Marketa (V)  
McCarty Sr, Kenneth (V)  
Neale, Melinda (V)  
Negrotto, David (P)  
Niday, Evelyn  
Noga, Edward (V)  
Oswald, Brian  
Paris, Michael  
Reed, Janet (P)  
Rogers, Joanna (I)

Saravitz, Carole (P)  
Schiller, Carol (V)  
Shillito, Raymond (P)  
Shreve, Maureen  
Spalding, Judson (V)  
St Clair, Richard (V)  
Velasquez, Harry (V)  
Watkins, Pamela  
Wiley, John  
Wright, Martha (P)  
Yankaskas, James (V)

#### NORTH DAKOTA

Hunt, Curtiss (V)  
Jauhar, Prem (P)  
Lee, Chiwon (P)

#### OHIO

Barna, Barbara (V)  
Boyce, Steven (V)  
Cerveny, T (V)  
Chapple, Paul (V)  
Cody, Terence  
Dahling, Daniel (V)  
Domir, Subhash (P)  
Durnford, Joyce  
Finer, John (P)  
Forma  
Friedman, Libby (V)  
Gibson-D'Ambrosio, Ruth (V)  
Gragory, Rosilyn (V)  
Grodin, Joanna (V)  
Heckman, Carol (V)  
Heffelfinger, Sue (V)  
Hink, W Fred (I)  
Hull, Barbara (V)  
Kantor, George  
Labarbera, Andrew (V)  
Leikauf, George  
Meerbaum, Sharon (V)  
Meister, Richard (I)  
Nawrocki, Laurie  
Pence, Valerie (P)  
Petro, Mary Ann (V)  
Pretlow, Theresa (V)  
Reed, Michael (V)  
Schafer, Irwin (V)  
Schmidt, Steven  
Setrakian, Sebouh (V)  
Starnier, Rebekah  
Stephens, Ralph  
Stinebring, Warren  
Stoner, Gary (V)  
Sudilovsky, Oscar (V)  
Theiss, Cheryl (V)  
Vain, Philippe (P)  
Walker, Michael (V)  
Wright, J (V)

#### OKLAHOMA

De Bault, Lawrence (V)  
Dell'Orco, Robert (V)  
Franklin, Chandra (P)  
Huang, Yinghua (P)  
Huslig, Susan (P)  
John, Rebecca

Larsh, Howard  
Magarian, Robert (V)  
McClung, J (V)  
Meichert, Russell (V)  
Patterson Jr, Manford (V)  
Welder, Allison

#### OREGON

Abrego, Ellen (P)  
Mathews, Helena (P)  
Mok, Machteid (P)  
Reed, Barbara (P)  
Siegel, Benjamin (V)

#### PENNSYLVANIA

Abraham, Katalin (V)  
Aloyo, Vincent  
Amenta, Peter (V)  
Apostoli, April  
Arndt, Ronald (V)  
Balin, Arthur (V)  
Beerman, Herman  
Bobrin, Brad (V)  
Breth, Leah (V)  
Carpenter, Esther (V)  
Cohen, Marion (V)  
Cristofalo, Vincent  
Demoise, Charles  
Deo, Yashwant (I)  
Dinan, Dermot (I)  
Etchberger, Karen (V)  
Fabrizio, Anglina (V)  
Greenberger, Joel  
Hsu, Ju-Yu (V)  
Isom, Harriet  
Kauffman, Susan  
Kiefer, David  
Komblieth, Paul  
Krah, David (V)  
Kreider, John (V)  
Kropp, John (V)  
Lazarus, Herbert (V)  
Lee, Chung  
Levine, Elliot (V)  
Majumdar, Shyamal (V)  
Marchese, Sandra (V)  
McCarthy, William (I)  
McKillip, Edward (V)  
Merck Res Lab  
Ming, Pen-Ming (V)  
Mullin, James (V)  
Nahapetian, Ara (I)  
Nette, Gerda  
Nicosia, Roberto (V)  
Niu, Man  
Noble, Charles (V)  
Novak, Josef (V)  
Noveral, James (V)  
Oka, Melvin  
Page, Constance (V)  
Panfile, Theresa (V)  
Partanen, Carl (P)  
Patton, William  
Paulus, Victor (V)  
Pennetti, Diane  
Phelen, Claire (V)  
Phillips, Paul (V)

Piesco, Nicholas (V)  
Pignolo, Robert (V)  
Porter, Keith  
Pralle, Michael (V)  
Roosa, Robert (V)  
Russo, Jose (V)  
Sano, Machteid  
Santoli, Daniela (V)  
Savage, Robert (P)  
Selden, Jules (V)  
Sharp, Diane (V)  
Sorger, Thomas (V)  
Sundarraj, Nirmala  
Vanderpool, Clarence (P)  
Wenger, Sharon  
Whitesell, Jean  
Winkler, Dennis (V)  
Yang, Da-Ping  
Zandla, Gordon (V)

#### PUERTO RICO

Garcia-Castro, Ivette (V)  
Kuno, Goro (I)  
Morales, Magda (V)

#### RHODE ISLAND

Barcus, Christina (V)  
Chee, Darwin (V)  
Chromiak, Joseph (V)  
Dileone, Gilbert (V)  
Dold, Mary Jane  
Fiore, Deborah  
Fisher, Harold  
Jauregui, Hugo (V)  
Meitner, Patricia (V)  
Naik, Sharda (V)  
Shaikh, Zahir (V)  
Tente, William (V)  
Vandenburgh, Herman (V)

#### SOUTH CAROLINA

Becwar, Michael (P)  
Brady, Polly  
Chesick, Emily (P)  
Godbey, Alice (P)  
Handley, Lee (P)  
Kodrzycki, Bob (P)  
Pirisi-Creek, Lucia (V)  
Sargent, Wayne (P)  
Sens, Donald  
Sens, Mary (V)  
Tarnowski, Betty (V)  
Terracio, Louis (V)

#### TENNESSEE

Adamec, Thomas (V)  
Caponetti, James (P)  
Chamness, Thomas (V)  
Cohen, Stanley  
Conger, Bob (P)  
Denchev, P  
Germain, Glen (V)  
Hahn, Kevin (V)  
Hoover, Richard  
Hughes, Karen (P)

Kahlon, Prem (P)  
 Kuklin, Alexander (P)  
 Manning, Richard (P)  
 McCormack, Shirley (V)  
 Moses, Harold (V)  
 Mrotek, James  
 Munson, Linda  
 Murrell, Leonard (V)  
 Myles, Elbert (P)  
 Osteen, Kevin (V)  
 Russell, James (V)  
 Tuskan, Gerald (P)

#### TEXAS

Acosta, Daniel (V)  
 Arrighi, Frances (V)  
 Bhaskaran, Shyamala (P)  
 Bjercke, Robert (V)  
 Buchholz, Wallace (P)  
 Chanon, Ann (P)  
 Chow, Diana (V)  
 Cockertine, Alan (P)  
 Connell, James (P)  
 Darlington, Gretchen (V)  
 Davis, Terry (V)  
 Dixon, Patricia (V)  
 Durban, Elisa  
 Fan, Dominic (V)  
 Froberg, Cal (P)  
 Gesell, Mark (V)  
 Giovanella, Beppino (V)  
 Goka, Thomas  
 Goodwin, Thomas (V)  
 Hall, Kristine (V)  
 Hall, Timothy (P)  
 Hammond, Dianne (V)  
 Haye, Keith (V)  
 Helmke, Ronald (V)  
 Hendrix, L Cheryl (V)  
 Hensler, Patrick (V)  
 Holian, Andrij  
 Hornsby, Peter (V)  
 Howe, William (V)  
 Hsu, Tao-Chiuh  
 Irvine, James (P)  
 Jackson, Kathy (V)  
 Jaeger, Laurie (V)  
 Kalter, S (V)  
 Kally, James (V)  
 Ko, Tae-Seok  
 Kreisberg, Jeffrey  
 Lazar, Mark (P)  
 Lee, Phillip (V)  
 Lineberger, R (P)  
 Mackay, Wayne (P)  
 Magnino, Peggy (V)  
 Marek, Thomas (P)  
 Martinez, Andrew (V)  
 McCauley, Robert (V)  
 McConnell, Stewart (V)  
 McIntire, Larry (V)  
 McKeehan, Wallace (V)  
 McQuinn, Tim (V)  
 Meitz, Martin  
 Miller, Don  
 Montgomery Jr, (P)  
 Morris, Elena (V)  
 Morris, Rodney (V)

Moyer, Mary Pat (V)  
 Nag, Abhijit (V)  
 Nettles, William (I)  
 Newton, Ronald (P)  
 Nixon, Jon (V)  
 Papaconstantinou, John (V)  
 Park, Sunghun  
 Pereira-Smith, Olivia  
 Pinerio, Gerald (V)  
 Pinson, Shannon (P)  
 Prewett, Tracey  
 Ramos, Kenneth (V)  
 Rogers, Suzanne M (P)  
 Rudolph, Victoria (P)  
 Rutzky, Lynne (V)  
 Schneider, Sandra (V)  
 Seman, Gabriel  
 Shade, Debra (V)  
 Shay, Jerry (V)  
 Sirbasku, David (V)  
 Smith, James (V)  
 Smith, Roberta (P)  
 Spiering, Andrea (V)  
 Stauffer, Jay (V)  
 Steinberger, Anna (V)  
 Thompson, E (I)  
 Tiffany-Castiglioni, Evelyn (V)  
 Trolinder, Norma (P)  
 Winters, Wendell (V)  
 Wood, Robert  
 Yang, Li-Ying (V)  
 Yang, Tracy (P)  
 Yao, Cheng (V)  
 Yu, Hing-Sing (V)  
 Yu, Hong (P)

#### UTAH

Barnett, Bill (V)  
 Caldwell, Virgil (V)  
 Carman, John (P)  
 Eisner, Yoko  
 English, Kathleen (V)  
 Hyclone (V)  
 Jerominski, Leslie (V)  
 Ohlson, Karin  
 Spandlove, Rex (V)  
 Young, Donald

#### VERMONT

Absher, Marlene (V)  
 Moehring, Thomas (V)  
 Morselli, Maria (P)  
 Mossman, Brooke (V)  
 Schaeffer, Warren (V)

#### VIRGINIA

Brumback, Brenda (V)  
 Coulson, John (V)  
 Faisal, Mohamed (I)  
 Ha, Sam (P)  
 Johnson, James (P)  
 Jones, W  
 Kassell, Neal (V)  
 LaPayre, Jerome (I)  
 Merchant, Donald (V)

Myhr, Brian  
 Pages, Robert (V)  
 Renfro, Michael (P)  
 Sirica, Alphonse (V)  
 Smith, Wade  
 Steward, Frederick  
 Williams, Christopher (V)  
 Wolfenbarger, Lloyd (V)

#### VIRGIN ISLANDS

Zimmerman, Thomas (P)

#### WASHINGTON

Avner, Ellis (V)  
 Blandau, Richard (P)  
 Bordonaro, John (V)  
 Branca, Andrew (V)  
 Bridgforth Jr, Robert (P)  
 Briggs, Bruce (P)  
 Caton, Lynne (P)  
 Derr, Mary (V)  
 Engel, Karen (V)  
 Gibson, Marylou (V)  
 Gupta, Pramod (P)  
 Hauschka, Stephen (V)  
 Hertenstein, Heidemarie (V)  
 Hill, Glen (V)  
 Hosick, Howard (V)  
 Jasman, Richard (V)  
 Kenison, Renee (P)  
 Kirk, David (V)  
 Klein, Richard  
 Kutsky, Roman (V)  
 Luchtel, Daniel (V)  
 Martin, George  
 McKernan, Patricia (V)  
 Moore, Emma  
 Munar, Lynda (V)  
 Norwood, Thomas (V)  
 Ross, Russell (V)  
 Sakuma, Bryan (P)  
 Schelling, Margaret (V)  
 Soderland, Carl (V)  
 Stenchever, Morton  
 Stiff, Carol (P)  
 Winton, James (I)  
 Yunker, Conrad

#### WISCONSIN

Auerbach, Robert (V)  
 Bavister, Barry (V)  
 Best, Violet (P)  
 Blumenthal, Samuel (V)  
 Brooks, Benjamin (V)  
 Christou, Paul (P)  
 Ellis, David (P)  
 Feirer, Russ (P)  
 Hildebrandt, Albert  
 Horn, Michael (P)  
 Lawson, Russell  
 Leikes, Peter  
 Malick, Linda (V)  
 Mehra-Palta, Asha (P)  
 Michler, Charles (P)  
 Neel, Lanny

Oberlay, Terry (V)  
 Pitot, Henry (V)  
 Ram, Raghav (P)  
 Riss, Terry (V)  
 Ruckert, Anna  
 Sattler, Gerald (V)  
 Serres, Rodney (P)  
 Skoog, Folke  
 Story, Michael (V)  
 Temin, Howard  
 Umbeck, Paul (P)  
 Wenzler, Herman (P)  
 Xu, Yi-Hua (V)

#### WEST VIRGINIA

Anderson, Douglas (V)  
 Blaydes, David (P)  
 Cordts, John (P)  
 Lidgerding, Burton (V)  
 Scorza, Ralph (P)

#### WYOMING

McHolland, Linda (V)

## OTHER COUNTRIES

( ) Division Affiliation

### ARGENTINA

Asua, Luis  
Avila, Rodolfo  
Bianchi, Nester  
Colombo, Jorge (V)  
Delustig, Eugenia (V)  
Lorenzi, Alicia  
Moriconi, Daniel (P)

### AUSTRALIA

Ansselin, Annick (V)  
Breit, Samuel  
Bunn, Clive (V)  
Fraser, J (V)  
Lu, Chin-Yi (P)  
Mark, Gerda (V)  
Petersen, Phillip (V)  
Stanley, Jean  
Van Der Staay, Robert  
Whitehead, Robert

### AUSTRIA

Boehm, Gerhard  
Heberle-Bors, Erwin (P)  
Schmidt, Josef (P)  
Schulte-Hermann, Rolf

### BANGLADESH

Roy, Shyamal (P)

### BELGIUM

Briers, Tony (V)  
Chevremont, Maurice  
De Block, Marc (P)  
De Ridder, L  
Debergh, Pierre (P)  
Dubois, Joseph  
Francoise, Collignon  
Homes, Jacques (P)  
Roelant, Chris (V)  
Swennen, Rony (P)  
Van Montagu, Marc (P)

### BRAZIL

Borojevic, Radovan (I)  
Meyer, Hertha  
Monteiro, Alvaro (V)  
Montes De Oca, Hector  
Penchel, Ricardo (P)  
Pinto, Jose (P)  
Raw, Isaias (V)

### CANADA

Abu-Hakima, Randa (V)  
Adamson, Ian (V)  
Armstrong, David (V)  
Arnold, Neville  
Arnold, Maryanne (P)  
Attree, Steve (P)

Auersparg, Nelly (V)  
Auger, Francois (V)  
Bellonck, Serge (I)  
Bols, Niels (V)  
Bommineni, Venkat (P)  
Bondy, Genevieve (V)  
Bouillant, Alain (V)  
Boulet, Andre (V)  
Briere, Normand (V)  
Brown, Daniel C (P)  
Burford-Mason, Aileen (V)  
Cervelli, Robert (P)  
Charest, Pierre (P)  
Congote, Luis (V)  
De Boni, Umberto (V)  
Denizeau, Francine  
Dollon, Charles (V)  
Doughty, Michael (V)  
Dunstan, David (P)  
Emmerman, Joanne (V)  
Fanok, Anthony (V)  
Fedoroff, Sergey (V)  
Finnegan, Cyril (V)  
Fisher, Ken (V)  
Germinario, Ralph (V)  
Grainger, George (P)  
Haffenden, Paul  
Hardy (Fallding), Margaret (V)  
Kao, Kuo (P)  
Kelly, Russell (V)  
Kennedy, Sean  
Kim, Seung (V)  
Lacatus, Michael (V)  
Langille, Robert (V)  
Langleben, David (I)  
Lao, Mio-Sam (V)  
Lawetz, Carol (V)  
Li, Ming (I)  
Macleod, Janet  
Marceau, Normand (V)  
Mazur-Melnyk, Mary (V)  
Medzon, Edward (V)  
Mélne, Alexander (V)  
Norbury, Kenneth (V)  
Pinsky, Leonard  
Pruski, Kris (P)  
Punja, Zamir (P)  
Rathbone, Michel  
Restivo, Charles (V)  
Richardson, David (P)  
Richardson, Arleen  
Rogers, Charles (V)  
Salas-Prato, Milagros (V)  
Saxena, Praveen (P)  
Seabrook, Janet (P)  
Simmonds, Daina (P)  
Sinclair, Ronald  
Sohi, Sardar (I)  
Tanswell, A  
Taurus, Tom (P)  
Templeton, Douglas (V)  
Thorpe, Trevor (P)  
Trepanier, Pierre (V)  
Turner, Jeffrey  
Vezina, Louis (P)  
Vippari, Virabhadra

Von Aderkas, Patrick (P)  
Wang, Hsi-Chang (V)  
Warren, R  
Wegener, Paul (V)  
Whitfield, James (V)  
Yeger, Herman (V)  
Yeung, Edward (P)

### CHINA

Ha, Lun (V)  
Xiao, Cheng-zu (V)

### COLOMBIA

Brusco, Christina (P)  
Lleras, Mauricio (P)

### COSTA RICA

Guzman, Nidia (P)

### DENMARK

Andersen, Jytte (P)  
Fogh, Jens (V)  
Hansen, Karen (V)  
Kongerslev, Leif (P)  
Krogstrup, Peter (P)  
Nielsen, Villy (V)

### ECUADOR

Levy, Luis (P)

### EGYPT

Abdel-Al, Zidan  
El-Barkouky, Mahmoud

### ENGLAND

Birch, John (V)  
Fay, Michael (P)  
Ferguson, Mark (V)  
Forsyth, Isabel (V)  
Heaney, Thomas (V)  
Hodges, Gisela (V)  
Lasnitzki, Ilse  
Milstein, Cesar  
Newall, Christine (P)  
Robins, Elvira (V)  
Rudiand, Philip  
Technology, The (V)  
Tee, Andrew (V)  
Ward, Timothy (V)  
Whittingham, David (V)

### FINLAND

Kauppinen, Veli (P)  
Lundqvist, Christina

### FRANCE

Adolphe, Monique (V)

Baritaud, D  
Bastide, Madeline  
Beaupain, Rene  
Belohradek Jr, Jean (V)  
Benet, Gerard (V)  
Billardon, Claude (V)  
Bourgin, Jean-Pierr (P)  
Brochard, P (P)  
Cazenave, JeanPierre (V)  
Courtois, Yves (V)  
Dorange, Germaine (I)  
Drovet, Ludovic  
Dubreuil, Alain  
Elias, Zoe  
Franchi, Jocelyne (V)  
Gioanni, Jeanine (V)  
Hahne, Gunther (P)  
Hill, Miroslav (V)  
Hollande, Etienne (V)  
Honikman-Leban, Esther (V)  
Jacquemin-Sablon, Alan  
Jaurand, Marie-Clau  
Pinet, Florence (V)  
Plas, Christiane (V)  
Quiot, Jean-Marie (I)  
Rey, Augustin  
Roguet, Roland  
Rougier, Andre  
Schreiber, Regine  
Sigot, Marie (V)  
Sykora, Otto (V)  
Toutain, Herve V  
Wepierre, Jacques  
Wolff, Etienne

### GERMANY

Abken, Hinrich (V)  
Bellemann, Peter  
Benitez, M Helena  
Emura, Makito (V)  
Falkenberg, Frank (V)  
Frieling, Klaus (V)  
Hamprrecht, Bernd (V)  
Herrmann, Ingeborg (V)  
Hilwig-Bente, Ingeborg (I)  
Koehler, Georges (J)  
Mittenburger, Herbert  
Muller, Helmut  
Peters, Karl  
Piper, Hans (V)  
Probst, Irmelin (V)  
Punter, Jürgen (V)  
Roesler, Hedi  
Schachtschabel, Dietrich (V)  
Segner, Helmut (V)  
Shedd, Suzanne (V)  
Streissle, Gert (V)  
Vedder, Helmut (V)  
VonRuecker, Alexander (V)

### HUNGARY

Ecsedi, Gabor (V)  
Gabor, Ecseri

**INDIA**

Agarwal, Baena (P)  
 Bhojwani, Sant (P)  
 Hapase, Dnyanadeo (P)  
 Jain, Dhanesh (P)  
 Reddy, Gurjal

**INDONESIA**

Wirjodarmodjo, Hartono (P)

**IRELAND**

Clynes, Martin (V)  
 Mothersill, Carmel (I)  
 O'Toole, Angela (V)  
 Thompson, David (P)

**ISRAEL**

Bennett, Gary (I)  
 Duksin, Dan (V)  
 Fischer, Dina  
 Moav, Neomi  
 Tanny, Gerald (P)  
 Watad, Abed  
 Ziv, Meira (P)

**ITALY**

Armato, Ubaldo (V)  
 Battaglia, Massimo (V)  
 Beggolin, Gino  
 Bertolini, Luisa (V)  
 Beruto, Margherita (P)  
 Chen, John (V)  
 Deambrogio, Enzo (P)  
 Formica, Lilla (P)  
 Levi-Montalcini, Rita  
 Martinelli, Alessio (P)  
 Martinelli, Lucia  
 Pasqualetto, Luigi (P)  
 Revoltella, Roberto (V)  
 Ronchi, V Nuti (P)  
 Rosati, Pasquale (P)  
 Rosato, Antonio (V)  
 Tuberosa, Roberto (P)

**JAPAN**

Akeo, Kiyoshi (V)  
 Ando, Joji  
 Awaji, Masahiko (I)  
 Bannai, Shiro  
 Fukamachi, Hiroshi (V)  
 Hoshi, Hiroyoshi (V)  
 Hotta, Susumu (V)  
 Iguchi, Taisen (V)  
 Ikeda, Hodaka  
 Inui, Naomichi (V)  
 Ito, Yoshikazu (V)  
 Iwai, Toyomichi (P)  
 Kagawa, Susumu (V)  
 Kawamoto, Keiji (V)  
 Kikuo, Iwabuchi (I)  
 Kimura, Ikuro (P)  
 Koga, Mutuyosi (V)  
 Kozai, Toyoki (P)

Kumamoto, Shoichiro (P)  
 Kumazaki, Tsutomu (V)  
 Kuroki, Toshio  
 Machii, Akira (I)  
 Masui, Toru (V)  
 Matsui, Hirofumi  
 Matsumura, Toshiharu (V)  
 Matsuoka, Hideo (V)  
 Matuo, Yushi (V)  
 Mitsuhashi, Jun (I)  
 Mizusawa, Hiroshi (V)  
 Morikawa, Minoru (V)  
 Motoko, Matsuda (V)  
 Murakami, Hiroki (V)  
 Nakagawa, Sizutoshi  
 Nakai, Tsuguhiko  
 Nakamura, Masaaki (V)  
 Namba, Masayoshi (V)  
 Nishi, Nozomu (V)  
 Nishi, Toyoyuki (P)  
 Niwa, Akira  
 Nomura, Takahiro (V)  
 Ohno, Tadao (V)  
 Okigaki, Tohru (V)  
 Saiga, Tatsuyoshi (V)  
 Sasamoto, Hamako (P)  
 Sato, Hidetaka (V)  
 Shirakawa, Hiroyasu (V)  
 Suzuki, Fumio (V)  
 Tahama, Yasuo  
 Takahashi, Hiroshi (V)  
 Takaki, Ryosaburo (V)  
 Takeuchi, Takuji (V)  
 Togami, Masatoshi (V)  
 Tomooka, Yasuhiro (V)  
 Yabe, Noritsugu  
 Yamada, Koji (V)  
 Yamada, Shin-Ichi (V)  
 Yamada, Yasuyuki (P)  
 Yokogawa, Yasushi (V)

**KOREA**

Han, Sang (P)  
 Paek, Kae (P)

**MEXICO**

Alcaraz-Melendez, Lilia (P)  
 Barcenas, Nina (I)  
 Bustamante, Marco (P)  
 Cardenas, Elizabeth (P)  
 Castro, Munozledo (V)  
 Esquitin, Carlos  
 Jofre-Garfias, Alba (P)  
 Kuri-Harcuch, Walid (V)  
 Lopez-Peralta, Cristina  
 Manuel, Robert (P)  
 Martinez, Otilio (P)  
 Merino, Maria  
 Velasquez, Beatriz (V)

**NETHERLANDS**

Holdgate, Donald  
 Ponet, Maria  
 Tetteroo, Frans (P)  
 Tetteroo, Pedro (V)  
 Van Hussen, A (P)

Wolter-Lutgerhorst, Mavr  
 Zandvoort, Eppie (P)

**NORWAY**

Domish, John (V)  
 Haugen, Aaga  
 Hvostef-Eide, Anne  
 Laerum, Ole  
 Pryma, Ian (V)

**PORTUGAL**

Canhoto, Jorge (P)  
 Fernandes-Ferreira, Manuel (P)  
 Marques, Duarte (P)

**PR CHINA**

Guobo, Ning

**SAUDI ARABIA**

Elhag, Hamid (P)  
 Said, E Abdel (P)  
 Suleiman, Suleiman (V)

**SCOTLAND**

Freshney, R

**SINGAPORE**

Ng, Mah

**SOUTH AFRICA**

Bey, Elke (V)  
 Hirumi, Hiroyuki (I)

**SOUTH KOREA**

Ahn, Byung Joon (P)  
 Lee, Youn (P)  
 So, June-No (V)

**SPAIN**

Ballester, A (P)  
 Martinez, Carmen  
 Roig, Luis (P)  
 Segura, Juan (P)  
 Turmay, F (V)  
 Vieitez, Ana (P)

**SRI LANKA**

Sannasgala, Kshanika (P)

**SWEDEN**

Bjorklund, Viveka (V)  
 Bomman, Chris (P)  
 Chatzisavido, Nathalie (V)  
 Clemenson, Cecilia (V)  
 Ekwall, Bjorn  
 Grafstrom, Roland (V)  
 Lundgren, Eric (V)  
 Pharmacia

Popowicz, Przemyslaw  
 Sjogren, AnnMargret (V)  
 Welander, Margareta (P)

**SWITZERLAND**

Cymbalista, Samuel (V)  
 Fischer, Rene (V)  
 Gianni, Soldati (P)  
 Kaminsky, Ronald (V)  
 Koblet, Hans (I)  
 Pfeifer, Andrea (V)  
 Ray, Louis (I)  
 Schmid, Beat  
 Staehelin, Hartmann  
 Suter, Willi  
 Zyrd, Jean-Pierr (P)

**TAIWAN**

Chang, Ming  
 Chen, Jan-Kan (V)  
 Chen, Long-Fang (P)  
 Chou, Ming (V)  
 Huang, Li-Chun (P)  
 Lee, Te-Chang (V)  
 Li, Shuan-Yow (V)  
 Liu, Ming-Chin (P)  
 Liu, Yin-Chang (V)  
 Wen, Wu-Nan

**TURKEY**

Cetiner, Selim (P)

**URUGUAY**

Bertalmio, Ana Maria (P)

**VENEZUELA**

Bello, Rosaura (V)  
 De Garcia, Eva (P)  
 Gugig, Mireya (V)  
 Urbaneja, Mercedes (V)

# DIVISION INDEX

## UNITED STATES

### INVERTEBRATE

Awaji, Masahiko  
 Barcenas, Nina  
 Belisle, Barbara  
 Bellonick, Serge  
 Bennett, Gary  
 Borojavic, Radovan  
 Buchsbaum, Ralph  
 Caleri, Chris  
 Cooper, Edwin  
 Culbertson, Clyde  
 Cupp, Mary  
 Deo, Yashwant  
 Dinan, Dermot  
 Dorange, Germaine  
 Easton, Christopher  
 Ellis, Lehman  
 Faisal, Mohamed  
 Fallon, Ann  
 Fenwick, Linda  
 Ferkovich, Stephen  
 Fraser Jr, Malcolm  
 Fung, Henry  
 Gong, Thomas  
 Goodman, Cynthia  
 Grasela, James  
 Hilwig-Bente, Ingeborg  
 Hink, W Fred  
 Hirumi, Hiroyuki  
 Hopkins, Jane  
 Hopkins III, Ralph  
 Horwath, Kathleen  
 James, Daniel  
 Johnson, Terrell  
 Juneja, Chandni  
 Kikuo, Iwabuchi  
 Klein, Paul  
 Koblet, Hans  
 Koval, Thomas  
 Kuno, Goro  
 Kurtli, Timothy  
 LaPeyre, Jerome  
 Laird II, Hugh  
 Langleben, David  
 Lawrence, Pauline  
 Li, Ming  
 Loeb, Marcia  
 Loh, Phillip  
 Lynn, Dwight  
 Machii, Akira  
 Maddalo, Francis  
 Maher, Veronica  
 Maramorosch, Karl  
 Maruniak, James  
 Masters, Barbara  
 McCarrol, Laura  
 McCarthy, William  
 McIntosh, Arthur  
 Meister, Richard  
 Mitsuhashi, Jun  
 Montgomery, Tana  
 Mothersill, Carmel

### INVERTEBRATE

Munderloh, Ulrike  
 Nahapetian, Ara  
 Nettles, William  
 Oberlander, Herbert  
 Owens, John  
 Pomponi, Shirley  
 Quiot, Jean-Marie  
 Radner, Babette  
 Ray, Louis  
 Rogers, Joanna  
 Safarik, Robert  
 Shearn, Allen  
 Sigma Cell Culture  
 Sohi, Sardar  
 Streett, Douglas  
 Thompson, E  
 Tilkins, Mary Lynn  
 Tsang, K  
 Vaughn, James  
 Wickes, Mary  
 Willis, Judith  
 Winton, James  
 Zuzolo, Ralph

### PLANT

Abdel-Al, Zidan  
 Abrego, Ellen  
 Ackerman, Eugene  
 Adams, Tom  
 Agarwal, Beena  
 Ahn, Byung Joon  
 Al-Khayri, Jameel  
 Alcaraz-Melendez, Lilia  
 Altman, David  
 Amerson, Henry  
 Ammirato, Philip  
 Andersen, Jytte  
 Armstrong, Charles  
 Arnoldo, Maryanne  
 Arnst, John  
 Attree, Steve  
 Avery Jr, John  
 Aves, Karessa  
 Aycock Jr, Marvin  
 Bailey, Anita  
 Ballaster, A  
 Becwar, Michael  
 Beecher, Christopher  
 Bertalmio, Ana Maria  
 Beruto, Margherita  
 Best, Violet  
 Betz, Steven  
 Bhaskaran, Shyamala  
 Bhojwani, Sant  
 Bidney, Dennis  
 Biedermann, Ilse  
 Blandau, Richard  
 Blaydes, David  
 Blomster, Ralph  
 Bommineni, Venkat

### PLANT

Bornman, Chris  
 Bourgin, Jean-Pierr  
 Brand, Mark  
 Bridgforth Jr, Robert  
 Briggs, Bruce  
 Brink, Kevin  
 Brochard, P  
 Brown, Daniel C  
 Brusco, Christina  
 Buchholz, Wallace  
 Bullock, William  
 Burke, Martha  
 Bustamante, Marco  
 Buterbaugh, Noel  
 Butterfield, Walter  
 Canhoto, Jorge  
 Cantliffe, Daniel  
 Caplin, Samuel  
 Caponetti, James  
 Cardenas, Elizabeth  
 Cardillo, Frances  
 Carman, John  
 Caton, Lynne  
 Cavazos, Gundalupa  
 Cervelli, Robert  
 Catiner, Selim  
 Chang, Irma  
 Chang, Ming-Mei  
 Chang, Yin-Fu  
 Chanon, Ann  
 Charest, Pierre  
 Charles, Audrey  
 Cheetham, Ronald  
 Chen, Long-Fang  
 Cheng, Ming  
 Cheplick, Susan  
 Chesick, Emily  
 Chin, Chee-Kok  
 Chou, Tau-San  
 Christou, Paul  
 Chu, Irwin  
 Chuppa, Sandra  
 Cockerline, Alan  
 Coker, Mary  
 Collins, Glenn  
 Compton, Michael  
 Conger, Bob  
 Connell, James  
 Cooper-Smith, Susan  
 Cordts, John  
 Cunanan, Dolores  
 Davis, Elizabeth  
 De Block, Marc  
 De Garcia, Eva  
 De Maria, Curator, Ernest  
 Deambrogio, Enzo  
 Debergh, Pierre  
 Diaz-Sala, Carmen  
 Diner, Alex  
 Doganlar, Sami  
 Doley, William

### PLANT

Domir, Subhash  
 Doonan, Barbara  
 Driver, John  
 Droste, Donna  
 Dunbar, Kerry  
 Dunstan, David  
 Dupuis, Isabelle  
 Durzan, Don  
 Eisenreich, Robert  
 El-Sharif, Ahmed  
 Elhag, Hamid  
 Ellis, David  
 Emershad, Richard  
 Ernst, Stephen  
 Falstad III, Clarence  
 Fay, Michael  
 Feirer, Russ  
 Fernandes-Ferreira, Manuel  
 Finch, Dan  
 Finer, John  
 Firoozabady, Ebrahim  
 Fong-Zuzolo, Betty  
 Formica, Lilia  
 Franklin, Chandra  
 Froberg, Cal  
 Genovesi, A  
 Gerlach, Dianne  
 Gianni, Soldati  
 Godbey, Alice  
 Grainger, George  
 Gray, Dennis  
 Griffith, John  
 Gupta, Pramod  
 Guzman, Nidia  
 Ha, Sam  
 Hahne, Gunther  
 Hall, Timothy  
 Hammerschlag, Freddy  
 Han, Sang  
 Handley, Lee  
 Hanning, Gary  
 Hansen, Judith  
 Hapase, Dnyanadeo  
 Hartman, Christina  
 Hauptmann, Randal  
 Healy, Michael  
 Heberle-Bors, Erwin  
 Henderson, James  
 Hennen, Gary  
 Hera, Colleen  
 Hinchee, Maud  
 Holdgate, Donald  
 Homes, Jacques  
 Honeycutt, Rhonda  
 Horn, Michael  
 Horst, R  
 Howe, Arlene  
 Hua, Sui-Sheng  
 Huang, Feng  
 Huang, Ji Ming  
 Huang, Li-Chun

## PLANT

Huang, Yinghua  
 Hubstanberger, John  
 Hughes, Karen  
 Hunter, Clifford  
 Huslig, Susan  
 Irvine, James  
 Ishida, Betty  
 Iwai, Toyomichi  
 Iype, P  
 Jain, Dhanesh  
 Jankay, Peter  
 Jauhar, Prem  
 Jayme, David  
 Jenderek, Maria  
 Jofre-Garfias, Alba  
 Johnson, James  
 Jones, Todd  
 Jong, Shung  
 Kahlon, Prem  
 Kamo, Kathryn  
 Kao, Kuo  
 Karnosky, David  
 Kaul, Karan  
 Kauppinen, Veli  
 Kenison, Renee  
 Kikkert, Julie  
 Kimura, Ikuro  
 Kilito, Sherry  
 Kiyomoto, Richard  
 Klein, Theodore  
 Kodrzycki, Bob  
 Kongerslev, Leif  
 Koza, Donald  
 Kozai, Toyoki  
 Kramer, Catherine  
 Kratz, Kent  
 Krikorian, Abraham  
 Krogstrup, Peter  
 Kuehnle, Adelheid  
 Kuklin, Alexander  
 Kumamoto, Shoichiro  
 Laczynski, Stephen  
 Ladyman, Juanita  
 Lauris, Karen  
 Lawrence Jr, Robert  
 Lazar, Mark  
 Lee, Byung  
 Lee, Chiwon  
 Lee, Youn  
 Levy, Luis  
 Lin, Yiqun  
 Lineberger, R  
 Liu, Ming-Chin  
 Lleras, Mauricio  
 Lu, Chin-Yi  
 Mackay, Wayne  
 Maddock, Sheila  
 Mangano, MaryLou  
 Mann, Michael  
 Manning, Richard  
 Manuel, Robert  
 Marek, Thomas  
 Marques, Duarte  
 Marsh, Lurline  
 Marsh, Wallace  
 Martinelli, Alessio  
 Martinez, Otilio

## PLANT

Masona, Munyaradzi  
 Massoudi, Mark  
 Masters, Linda  
 Mathews, Helena  
 Matsumoto, Tracie  
 May, Roger  
 Mayers, Anna  
 Maynard, Charles  
 McCoy, Thomas  
 McKently, Alexandra  
 McNabb Jr, Harold  
 Medich, Catherine  
 Mehra-Palta, Asha  
 Merkle, Scott  
 Meyer Jr, Martin  
 Michler, Charles  
 Milikova, Elena  
 Minocha, Rakesh  
 Mishra, Ken  
 Misikita, Weston  
 Mok, Machteld  
 Moriconi, Daniel  
 Morselli, Maria  
 Murashige, Toshio  
 Mytes, Elbert  
 Negrotto, David  
 Newell, Christine  
 Newton, Ronald  
 Nishi, Toyoyuki  
 Nordahl, Carl  
 Nunez, Victor  
 Nuss, Donald  
 Oakes, Janette  
 Oathout, James  
 Obendorf, Ralph  
 Oglesby, Raymond  
 Olney, Arthur  
 Ozias-Akins, Peggy  
 Paek, Kee  
 Panella, Lee  
 Partanen, Carl  
 Pasqualetto, Luigi  
 Pence, Valerie  
 Penchel, Ricardo  
 Petersen, William  
 Peterson, Jerry  
 Phillips, Gregory  
 Pieper, Mark  
 Pijut, Paula  
 Pinson, Shannon  
 Pinto, Jose  
 Porobo-Dessai, Anant  
 Prakash, C  
 Preece, John  
 Pruski, Kris  
 Punja, Zamir  
 Quan, Shirley  
 Rafi, Malik  
 Rajasekaran, Kanniah  
 Ram, Raghav  
 Rance, Iann  
 Ranch, Jerome  
 Rangan, Thirumala  
 Read, Paul  
 Redenbaugh, M  
 Reed, Barbara  
 Reed, Janet

## PLANT

Reichert, Nancy  
 Reisert, Patricia  
 Renfro, Michael  
 Reynolds, John  
 Rhodes, Carol  
 Richardson, David  
 Richardson, William  
 Robertson, Diane  
 Rodriguez, David  
 Rogers, Suzanne M  
 Roig, Luis  
 Romanczyk, Leo  
 Ronchi, V Nuti  
 Rosati, Pasquale  
 Rosenthal, Sharon  
 Ross, Margit  
 Roy, Shyamal  
 Rudolph, Victoria  
 Safadi, Farida  
 Said, E Abdel  
 Sakuma, Bryan  
 Sandahl, Jeanne  
 Sannasgala, Kshanika  
 Saravitz, Carole  
 Sargent, Wayne  
 Sasamoto, Hamako  
 Savage, Robert  
 Saxena, Praveen  
 Schaeffer, Gideon  
 Schmidt, Josef  
 Schnapp, Sherry  
 Schopka, Christian  
 Scorza, Ralph  
 Saabrook, Janet  
 Sears, Rollin  
 Segura, Juan  
 Serres, Rodney  
 Sharma, Govind  
 Shilito, Raymond  
 Simmonds, Daina  
 Singha, Suman  
 Smagula, John  
 Smith, Cathy  
 Smith, Harold  
 Smith, J Thomas  
 Smith, Mary  
 Smith, Richard  
 Smith, Roberta  
 Smith, Wendy  
 Sommer, Harry  
 Songstad, David  
 Starkey, Karen  
 Steen, David  
 Stiff, Carol  
 Strode, Randall  
 Sturtevant, Ann  
 Summerfelt, Kristin  
 Swennen, Rony  
 Tabancay, Teodora  
 Tanabe, Michael  
 Tanny, Gerald  
 Taurous, Tom  
 Tepper, Herbert  
 Tetseroo, Frans  
 Thomas, Laurie  
 Thompson, David  
 Thorpe, Trevor

## PLANT

Tomas, Dwight  
 Townsend, Jeffrey  
 Tremmel, Benjamin  
 Trollander, Norma  
 Truison, Anna  
 Tuberosa, Roberto  
 Turner, Joann  
 Tusa, Daniel  
 Tuskan, Gerald  
 UST, Inc  
 Umbeck, Paul  
 Vain, Philippe  
 Van Hussen, A  
 Van Montagu, Marc  
 Vanderpool, Clarence  
 Vasil, Indra  
 Vezina, Louis  
 Viteez, Ana  
 Viss, Peter  
 Von Adérkas, Patrick  
 Wambugu, Florence  
 Wang, Andrew  
 Ward, Dannelle  
 Weathers, Pamela  
 Weeks, James  
 Weigel, Russell  
 Welandar, Margareta  
 Welsh, Kent  
 Wenzler, Herman  
 West, Sherlie  
 Wicholm, Jack  
 Wilson, Kathryn  
 Wilson, Robert  
 Wijodarmodjo, Hartono  
 Wright, Lawrence  
 Wright, Martha  
 Yamada, Yasuyuki  
 Yamamoto, Masako  
 Yang, Tracy  
 Yates, Willard  
 Yeung, Edward  
 Yingling, Richard  
 Yu, Hong  
 Zandvoort, Eppie  
 Zankowski, Paul  
 Zhang, Shipang  
 Ziegenmeyer, James  
 Zimmerman, Richard  
 Zimmerman, Thomas  
 Ziv, Meira  
 Zyrd, Jean-Pierr

## VERTEBRATE

Abken, Hinrich  
 Abraham, Katalin  
 Absher, Marlene  
 Abu-Hakima, Randa  
 Acosta, Daniel  
 Adamec, Thomas  
 Adamson, Ian  
 Adelson, Mark  
 Adolphe, Monique  
 Aja, Teresa  
 Akeo, Kyoshi  
 Albright, Julia  
 Aleo, Joseph

# VERTEBRATE

Alespelti, Gabriel  
 Allen, Katherine  
 Allen, Lynn  
 Allison, Glenn  
 Ambrosino, Claire  
 Amanta, Peter  
 American Cyanamid  
 Anderson, Douglas  
 Anderson, Margaret  
 Anderson, Marika  
 Andres, Joel  
 Anaskievich, Brian  
 Angelosanto, Frank  
 Anselin, Annick  
 Armato, Ubaldo  
 Armstrong, David  
 Arndt, Ronald  
 Arrighi, Frances  
 Arterburn, Linda  
 Arthur, Marika  
 Auerbach, Robert  
 Auerperg, Nelly  
 Auger, Francois  
 Avner, Ellis  
 Aydelotte, Margaret  
 Babcock, Merrill  
 Babich, Harvey  
 Bacher-Wetmore, Bea  
 Bacon, James  
 Bale, Shankar  
 Balin, Arthur  
 Balwierz, Patrick  
 Barcus, Christina  
 Barile, Frank  
 Barile, Michael  
 Barna, Barbara  
 Barnett, Bill  
 Battaglia, Massimo  
 Battista, Paul  
 Bautista, Eddie  
 Bavister, Barry  
 Beattie, Craig  
 Beattie, Gillian  
 Beauregard, Laurent  
 Beck, James  
 Becker, Jeanne  
 Belahradek Jr, Jean  
 Bello, Rosaura  
 Benane, Shawnee  
 Benet, Gerard  
 Benton-Vosman, Trish  
 Berger, Joseph  
 Bernhofer, Lauren  
 Bertolini, Luisa  
 Bethell, Debra  
 Bey, Elke  
 Bhatt, Raj  
 Bibbins Jr, Paul  
 Biggar, Sandra  
 Billardon, Claude  
 Birch, John  
 Bjercke, Robert  
 Bjorklund, Viveka  
 Black, Ann  
 Blackstone, Susan  
 Blumenthal, Samuel  
 Bobrin, Brad

# VERTEBRATE

Boder, George  
 Boehs, Kenneth  
 Bols, Niels  
 Bondy, Genevieve  
 Bordonaro, John  
 Borenfreund, Ellen  
 Bouillant, Alain  
 Boulet, Andre  
 Bowen, John  
 Bowman, Phillip  
 Boyce, Steven  
 Boyd, Ann  
 Bozeman, F  
 Bradlaw, June  
 Brako, Emmanuel  
 Branca, Andrew  
 Breth, Leah  
 Briere, Normand  
 Briers, Tony  
 Brockbank, Kelvin  
 Bronson, David  
 Bronson, Rebecca  
 Brooks, Benjamin  
 Brown, Bruce  
 Brumback, Brenda  
 Bucher, Nancy  
 Buck, Charles  
 Buehring, Gertrude  
 Buldo, Aileen  
 Bunn, Clive  
 Burford-Mason, Aileen  
 Burke, Jennifer  
 Cady, David  
 Caldwell, Virgil  
 Caleb, Benjamin  
 Cameron, Joseph  
 Caple, Matthew  
 Carpenter, Esther  
 Casey, Kathleen  
 Casto, Bruce  
 Castro, Munozledo  
 Cazenave, JeanPierre  
 Cerveney, T  
 Chamness, Thomas  
 Chang, Chia  
 Chappell, W  
 Chapple, Paul  
 Chatzisavido, Nathalie  
 Chee, Darwin  
 Chen, Jan-Kan  
 Chen, John  
 Cheng, Josephine  
 Chlapowski, Francis  
 Chou, Ming  
 Chow, Diana  
 Christensen, Julie  
 Chromiak, Joseph  
 Chu, Ernest  
 Chung, Ho  
 Chung-Welch, Nancy  
 Claycomb, William  
 Clemenson, Cecilia  
 Clynes, Martin  
 Cohen, Leonard  
 Cohen, Marion  
 Colby, Richard  
 Coleman, Edward

# VERTEBRATE

Collaborativa  
 Collier, Kathleen  
 Collocci, Paul  
 Colombo, Jorge  
 Colman, Bert  
 Congote, Luis  
 Cooper, Norman  
 Coriell, Lewis  
 Costar Corporation  
 Coulson, John  
 Courtois, Yves  
 Covington, Maryanne  
 Crespi, Charles  
 Culberson, Cathy  
 Cunha, Gerald  
 Cuono, Charles  
 Curley, Dennis  
 Custer, Linda  
 Cymbalista, Samuel  
 Czibik, Rudolf  
 D'Amore, Patricia  
 Dahling, Daniel  
 Daniafinia, Nancy  
 Danner, Douglas  
 Darlington, Gretchen  
 Darr, Ginny  
 Dasch, Gregory  
 David, John  
 Davidson, Richard  
 Davis, Terry  
 Davis, Vanessa  
 De Bault, Lawrence  
 De Boni, Umberto  
 DeVita, Lynn  
 Decker, Denise  
 Dehn, Paula  
 Deitch, Arline  
 Deleon, Rodney  
 Delgado, Michael  
 Dell'Orco, Robert  
 Delustig, Eugenia  
 Demetrias, Janis  
 Denton, Shelly  
 Derr, Mary  
 Digiovanni, Laura  
 Diglio, Clement  
 Dileone, Gilbert  
 Dixon, Patricia  
 Doillon, Charles  
 Donovan, Janet  
 Doran, Thomas  
 Dornish, John  
 Dougherty, George  
 Doughty, Michael  
 Drucker-Pursell, Debbie  
 Drumheller, Brian  
 Dubes, George  
 Duff, James  
 Duksin, Dan  
 Dunnebacke-Dixon, Thelma  
 Dwyer, Daniel  
 Dye, Frank  
 Ebert, Steven  
 Ecsedi, Gabor  
 Edwards, Benjamin  
 Edwards, Betty  
 Elkwood, Kathleen

# VERTEBRATE

Elmore, Eugene  
 Emerman, Joanne  
 Emura, Makito  
 Engel, Karen  
 Engelmann, Gary  
 English, Kathleen  
 Estridge, Trudy  
 Etchberger, Karen  
 Evans, Irene  
 Evans, Thomas  
 Fabrizio, Angina  
 Faircloth, Glynn  
 Falkenberg, Frank  
 Familletti, Philip  
 Fan, Dominic  
 Fanok, Anthony  
 Fay, Michael  
 Feder, Joseph  
 Fedoroff, Sergey  
 Ferguson, Mark  
 Festen, Richard  
 Fike, Richard  
 Filazzola, Rocco  
 Finch, Robert  
 Fine, Donald  
 Finley, Joelle  
 Finnegan, Cyril  
 Fischer, Rene  
 Fischman, Gary  
 Fish, Donald  
 Fisher, Ken  
 Fisher, Paul  
 Flanerty, Paula  
 Fletcher, Ronald  
 Floyd, Alton  
 Flynn, Thomas  
 Fogh, Jens  
 Foley, John  
 Ford, Mary  
 Ford, Sue  
 Forsyth, Isabel  
 Franchi, Jocelyne  
 Fraser, J  
 Frazier, John  
 Freeman, Gustave  
 Friedman, Libby  
 Frieling, Klaus  
 Fukamachi, Hiroshi  
 Gabridge, Michael  
 Gamble, Mary  
 Garcia-Castro, Ivette  
 Gay, Roger  
 Germain, Glen  
 German III, James  
 Germinario, Ralph  
 Gesell, Mark  
 Geyer, Robert  
 Gibson, Marylou  
 Gibson-D'Ambrosio, Ruth  
 Giles, Richard  
 Gillette, Ronald  
 Gimbronejr, Michael  
 Ginsberg, Leonard  
 Giovanni, Jeannie  
 Giovaneella, Boppino  
 Githens, Sherwood  
 Godman, Gabriel

VERTEBRATE

Golam, Steven  
Gonzales, Federico  
Goodheart, Clyde  
Goodwin, Thomas  
Gorfen, Stephen  
Gould, Sandra  
Gower, William  
Grady, David  
Grafstrom, Roland  
Gray, Harry  
Green, Sidney  
Greene, Joanne  
Grefrath, Phillip  
Gregory, Rosilyn  
Groden, Joanna  
Gruenert, Dieter  
Gugig, Miraya  
Gump, Jana  
Gutman, Helene  
Hahn, Kevin  
Hales, Joanna  
Hall, Daniel  
Hall, Kristine  
Ham, Richard  
Hamada, Spencer  
Hamberger, John  
Hamburger, Anne  
Hamelehle, Katherine  
Hammond, Dianne  
Hamprecht, Bernd  
Hancock, Miriam  
Hansen, Karen  
Hansen, Robert  
Harbell, John  
Hardy (Fallding), Margaret  
Harnois, Marion  
Harris, Kathleen  
Harris, Morgan  
Harrison, Edward  
Harrison, Stephen  
Hauschka, Stephen  
Hausman, Steven  
Haussler, Carol  
Hay, Robert  
Hayashi, Hajime  
Haye, Keith  
Haylick, Leonard  
He, Lun  
Heaney, Thomas  
Heckman, Carol  
Hefelfinger, Sue  
Hefu, Arthur  
Hein, V  
Heiser, Richard  
Helmke, Ronald  
Hendrix, L Cheryl  
Hensler, Patrick  
Herman, Mary  
Herrmann, Ingeborg  
Hertenstein, Heidemarie  
Hewitt, Eleanore  
Hill, Colin  
Hill, Glen  
Hill, Miroslav  
Hill, Ronald  
Hillegas, William  
Hirschel, Mark

VERTEBRATE

Hitzeman, S Jean  
Hodges, Gisela  
Hoffeld, J  
Hollande, Etienne  
Holst, Patricia  
Honikman-Leban, Esther  
Hooser, Lawrence  
Hopkins, Jo-Antoine  
Hornberger, Elizabeth  
Hornsby, Peter  
Hoshi, Hiroyoshi  
Hosick, Howard  
Hotta, Susumu  
Howe, William  
Howlett, Allyn  
Hsu, Ju-Yu  
Hubchak, Susan  
Hugo, Ronald  
Hukku, Bharati  
Hull, Barbara  
Hull, Robert  
Hunt, Curtiss  
Huot, Rachel  
Hyclone  
Iguchi, Taisen  
Ilislay, Stephen  
Inui, Naomichi  
Isseroff, Rivkah  
Ito, Yoshikazu  
Jackson, Kathy  
Jackson, Marvin  
Jackson-Matthews, Dianne  
Jacobsen, Linda  
Jacobson, Elizabeth  
Jasger, Laurie  
Jasman, Richard  
Jauregui, Hugo  
Jerominski, Leslie  
Johnston, Dean  
Jones, Christopher  
Jones, Rhonda  
Juillard, Guy  
Kagawa, Susumu  
Kahn, Carolyn  
Kaighn, M Edward  
Kalmus, Gerhard  
Kalmus, Karin  
Kaltenbach, Jane  
Kalter, S  
Kaminsky, Ronald  
Kan, Mikio  
Kaneski, Christina  
Kao, Fa  
Karasek, Marvin  
Kassell, Neal  
Kasten, Frederick  
Kaszynski, Edwin  
Katz, Marion  
Kaufman, David  
Kawamoto, Keiji  
Keathley, Jane  
Kellogg, Barb  
Kelly, Christopher  
Kelly, James  
Kelly, Russell  
Kemp, Christopher  
Kerkof, Paul

VERTEBRATE

Khalil, Deborah  
Kielpinski, Grace  
Kim, Seung  
King, Bernard  
King, Kathleen  
Kingston, Gina  
Kirk, David  
Kitos, Paul  
Klausner, Mitchell  
Klintworth, Gordon  
Kloss, Jean  
Koga, Mutuyosi  
Kotts, Claire  
Kouri, Richard  
Kovacs, Shirley  
Kovar, Jan  
Krah, David  
Kramer, Susan  
Kraus, William  
Kreider, John  
Krok, Kristina  
Kropp, John  
Kruk, Patricia  
Kuchera, Mary  
Kumazaki, Tsutomu  
Kuri-Harcuch, Walid  
Kusmik, William  
Kuszynski, Charles  
Kutsky, Roman  
Kvietys, Peter  
LaMotte, James  
Labarbera, Andrew  
Labrecque, Douglas  
Lacatus, Michael  
Lamar, Carlton  
Lande, Mauricio  
Lande, Lee  
Langille, Robert  
Lao, Mio-Sam  
Lapp, Carol  
Lasfargues, Etienne  
Lauter, Carl  
Lawetz, Carol  
Lazarus, Herbert  
Leak, Lee  
Leavitt, Ondrya D M  
Lebaron, Richard  
Lebherz III, William  
Lee, Phillip  
Lee, Te-Chang  
Lees, Ann  
Leibovitz, Albert  
Leiderman, Lisa  
Leighton, Joseph  
Lembach, Kenneth  
Lennets, Edwin  
Levine, Elliot  
Lewis, Byron  
Lewis, Nancy Jo  
Lewis, Ronald  
Li, Shuan-Yow  
Liang, Kate  
Lichter, Wolf  
Lichti, Ulrike  
Lidgerding, Burton  
Lin, Ming  
Lipman, Jack

VERTEBRATE

Liu, Yin-Chang  
Loch-Caruso, Rita  
Loderstedt, James  
Lovig, Charles  
Lucas, Paul  
Luchtel, Daniel  
Lundgren, Eric  
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Research Triangle Park, NC

The 45th Annual Meeting of the Tissue Culture Association

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#### Plant

- The state of the art for transformation systems: what is new, what works best, what are the current limitations; pros and cons
- Engineered Plants as Sources of Valuable Products
- In Vitro Plant Compounds on the Commercial Front
- Hormone Manipulation in Transgenic Plants
- Problems of Fertility in Regenerated Plants

#### Cellular Toxicology

- In Vitro Assessment of Transport Mechanisms in Mammalian Cells
- Tissue Specific Xenobiotic Metabolism
- Stress Proteins as Markers of the Toxic Response
- The Role of Cell Mediators in the Toxic Response
- In Vitro Test Systems in Toxicology
- Cell Culture Alternatives to Animal Experimentation

#### Vertebrate

- The Role of Extracellular Matrix in Differentiated Gene Expression
- Primary Culture of Differentiated Cells
- Tissue Specific Gene Transcription
- Second Messenger Systems in Differentiated Cells
- Cellular Aging
- Cell Culture Applications in Biotechnology

#### Invertebrate

- Recent Progress in Transformation Systems
- Expression of Regulated Genes

#### Special Joint Symposium

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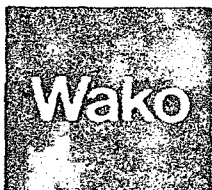
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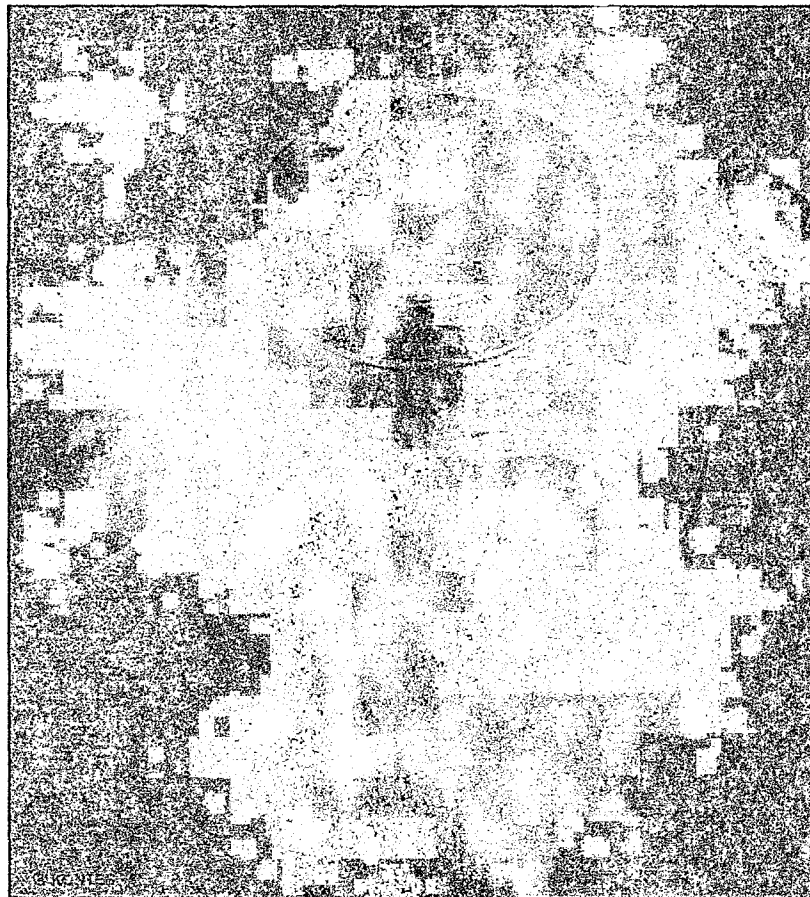
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## NOTES

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## NOTES

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## NOTES

# *Tissue Culture vs. Company Culture*

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Today, good science can be done in either academia or industry. The developments on both sides are exciting and point to a bright future for anyone with cell culture skills. And yet, many scientists will stumble as they move from the academic world into the industrial life sciences. Why? Because there are as many different company cultures as there are cell lines. *One factor that determines your success in any job is your ability to integrate into the culture of the new employer.*

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